

# WIRE PRODUCTS ORNAMENTAL IRON AND BRONZE

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ESTABLISHED 1884

**F.P. SMITH**  
**WIRE AND IRON WORKS**  
**CHICAGO**



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No. 110 General Catalog

ESTABLISHED 1884

# **F. P. SMITH**

## **Wire and Iron Works**



**GENERAL OFFICES AND WAREHOUSES**

2340 to 2348 Clybourn Avenue

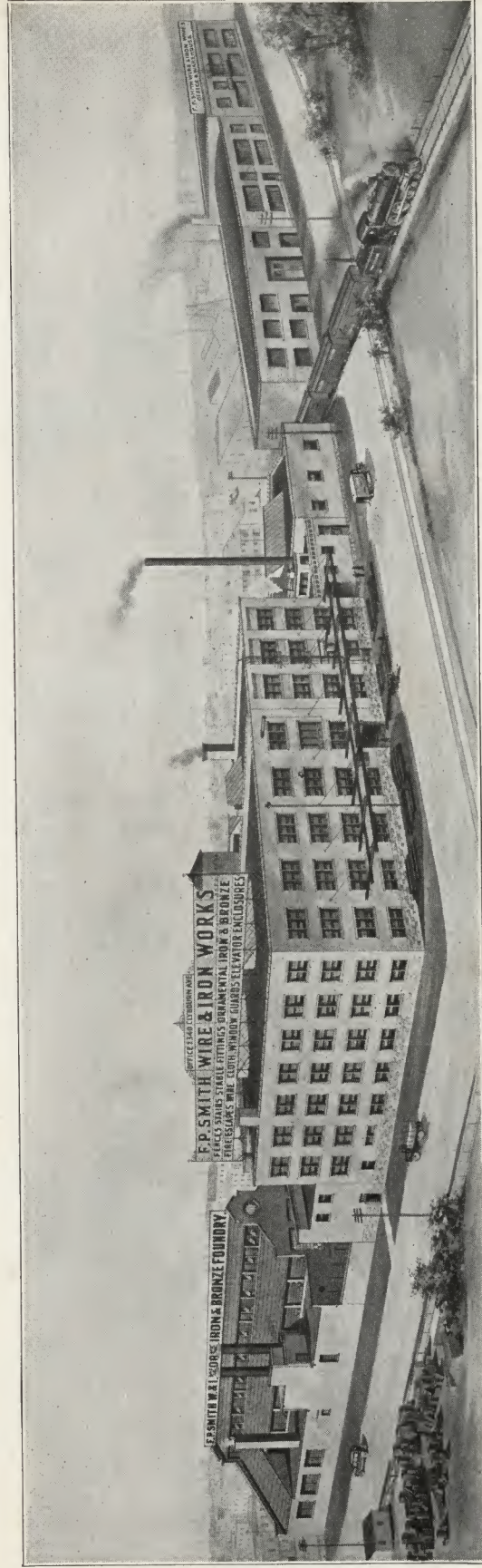
Telephone Lincoln 7000 (Private Exchange)

**SHOPS AND FOUNDRY**

Fullerton, Clybourn and Ashland  
Avenues and Chester Street

**CHICAGO**

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F. P. Smith Wire and Iron Works



Our shops, foundry and warehouses, shown above, are located at Fullerton, Clybourn and Ashland Avenues and Chester Street, Chicago, on the C. M. St. P. & P. and the C. & N. W. Railways, with switch into factory.

They are provided with all the latest appliances for turning out the work to the best advantage as regards quality, time and economy, our plant being the largest and most complete of its kind in this country, and representing an investment of over half a million dollars; this enables us to guarantee faithful and satisfactory execution of any order, large or small, that is entrusted to our care, a guarantee which is endorsed by a successful business record extending over a period of nearly 50 years.





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



**I**N presenting our No. 110 General Catalog, we desire to express our deep appreciation of the continued patronage given us in the past, which has enabled us to considerably enlarge our facilities since our last general catalog was issued and we wish to assure our customers that we will persevere in our efforts to merit the continuance of their favors, by adhering to our policy of furnishing high class work at prices as low as consistent with very best workmanship and material, a policy which we have followed for almost half a century.

Our factory, shown on the opposite page, is the **largest and best equipped** of its kind in this country and comprises in one **complete** plant all the different departments such as: pattern and modeling shop; iron, brass and bronze foundry; wire weaving and working shops; fitting, finishing and plating sections; electric and gas welding departments; warehouse etc.

Our general offices, estimating and drafting rooms, are housed in a separate building, shown by illustration on this page, adjacent to our factory.

We have a large force of skilled mechanics, who have specialized in their various lines for many years and a corps of estimators and salesmen, who see to it that every inquiry and order, no matter whether large or small, is taken care of in a thorough and painstaking way, to the customer's complete satisfaction, as we firmly believe that a **satisfied customer is the best possible advertisement.**



Our **guarantee and business reputation** are behind every order we turn out and we would strongly recommend that parties interested should inquire as to the **responsibility** of the manufacturer, for their own protection and interest, before placing their orders. We take pleasure in referring prospective customers, in regard to our responsibility, to any commercial agency, or prominent bank, in the country.

We have endeavored to show and describe in this catalog the various lines of goods we manufacture, as completely as it was practicable. In some lines, however, there is such a variety of designs, or combinations of designs, which can be used, that it would be impossible to show them all; in such cases we have shown only the most popular patterns, but we will gladly submit other designs from our large as-

Our General Offices, Estimating and Drafting Rooms, 2340 to 2348 Clybourn Avenue, Chicago  
sortment, or we will have special ones prepared along such lines as customer may indicate, as we are in position to furnish anything desired in our line, either in the simple or in the more elaborate patterns.

For some of our other lines, which are also only mentioned or briefly described in this general catalog, we have special catalogs fully showing and describing them, which we will gladly send to interested parties on request, as noted.

When writing in regard to goods shown in this catalog, please designate the goods wanted, by number and name, also mention the number of this catalog.

By giving us particulars, sizes etc., if convenient, in your first letter, you will greatly facilitate the preparation of our estimate or the execution of the order and avoid a considerable loss of time.

The prices given in this catalog are F. O. B. Cars, Chicago; estimates on freight charges to any destination submitted on request. If goods are desired shipped over any particular route, kindly state so in your order; otherwise we will ship as we think best. Our responsibility ceases upon delivery of the goods in good order to the transportation company; any claim for loss, or damage while in transit, should be made against the transportation company promptly on receipt of goods.

Our terms are net thirty days from date of invoice. Strangers and persons not rated in the commercial agencies will kindly send references, or remit, when ordering.

We desire to thank our customers for past patronage and solicit a continuance of their favors as well as the patronage of new customers, who may rest assured their interests will be well taken care of in our hands.

F. P. SMITH WIRE & IRON WORKS.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



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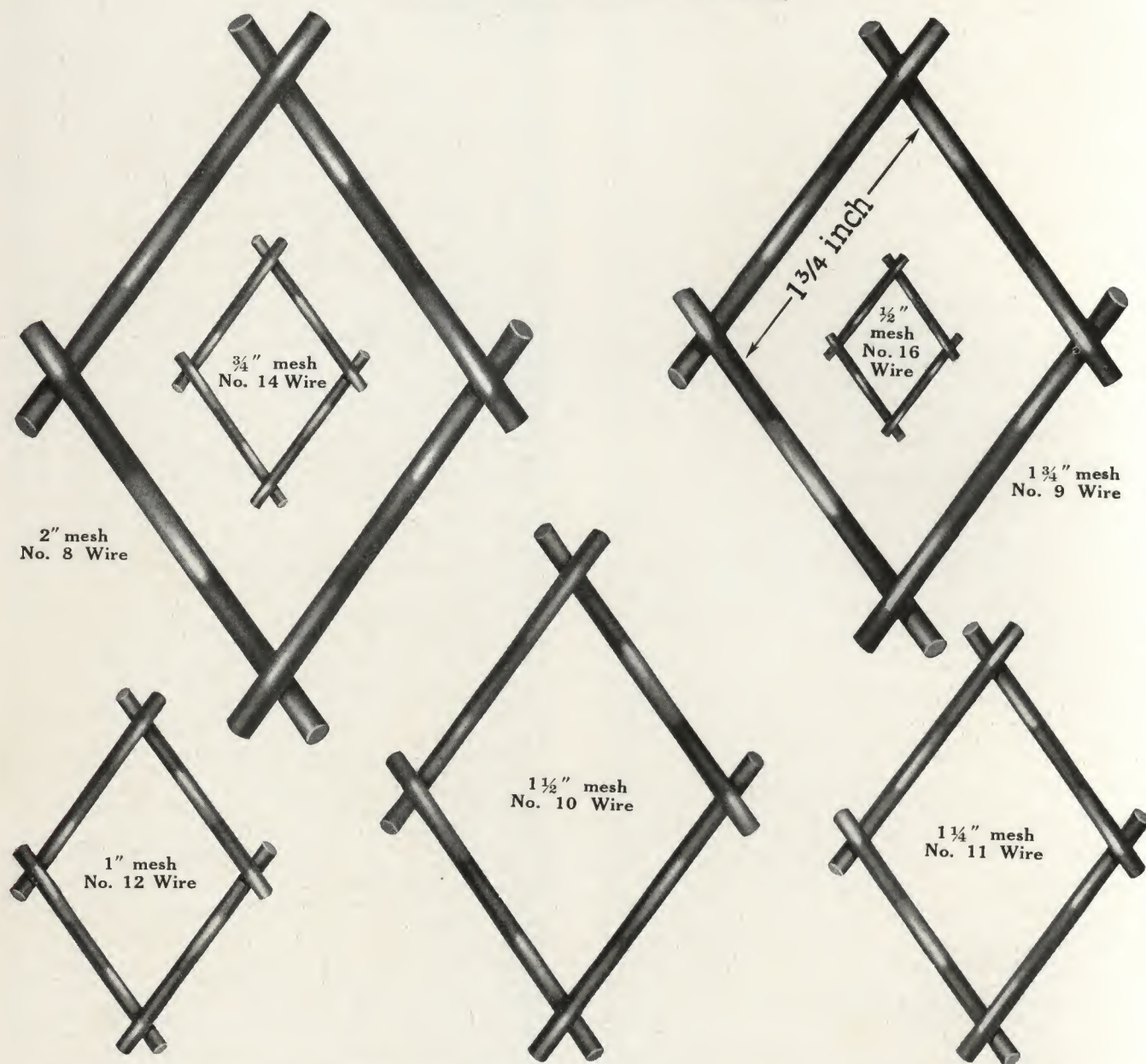




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Diamond Mesh Fabric or Wire Cloth Intermediate Crimp**



OUR DIAMOND MESH FABRIC OR WIRE CLOTH is woven on modern power looms producing a rigid and durable Fabric. The wires have the intermediate crimps, which form uniform meshes and prevent the wires from spreading.

We are prepared to furnish this Fabric in meshes from  $\frac{1}{2}$  inch to 3 inch, in various sizes of wire, other than what we illustrate on this page. We can furnish it in rolls of 100 lineal feet or in sheets of exact length and width to which there is no limit except as to convenient size for handling and shipping.

**WE CAN ALSO FURNISH THIS INTERMEDIATE CRIMP FABRIC OR WIRE CLOTH IN SQUARE MESH.**

While it is usually made of plain steel wire, it can also be furnished painted finish or of galvanized wire; also of brass, copper or bronze wire and other metals. We do not attempt to furnish Diamond Mesh Fabric galvanized after woven, unless it is framed.

In Diamond Mesh Fabric the MESH is the opening or space between parallel wires. (Note illustration of  $1\frac{3}{4}$  inch mesh above). This rule is established in accordance with the resolution of the National Association of Ornamental Iron & Bronze Manufacturers.

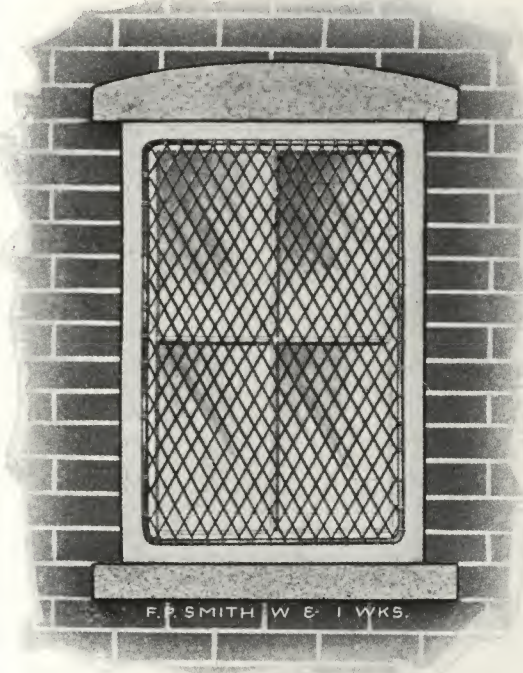




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Crimped Wire Window Guards, Diamond Mesh**

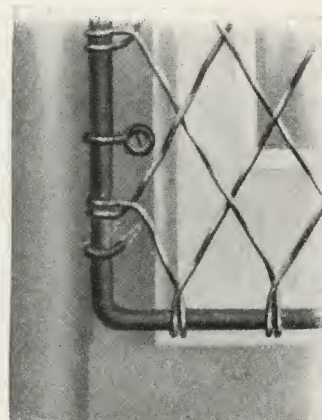


**No. 60 Window Guard with Round Steel Frame**

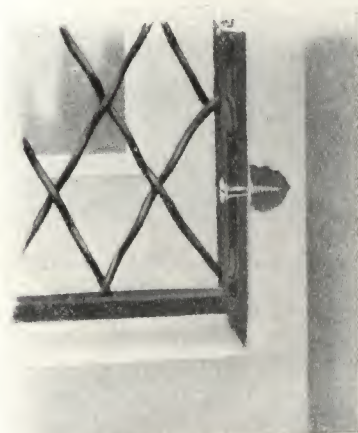
The type shown opposite is made of intermediate crimp steel wire, securely clinched on a round steel frame.

These Guards are usually attached to the window frame with wire staples, and sometimes screw-eyes, made of round wire, or flat steel clips and screws are used. For other methods of attaching to window frame, also for arranging them to swing and lock, refer to following pages.

In our round frame guards the ends of frame are joined by butt welding, producing a strong one-piece frame, and far superior to the method of joining frame with ferrules.



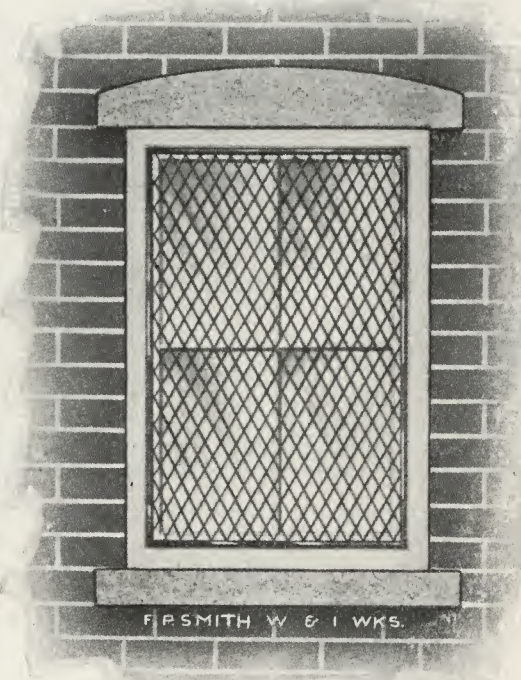
**Round Steel Frame Window Guard**



**Channel Steel Frame Window Guard**

The type shown opposite is made of intermediate crimp steel wire, securely clinched in a channel steel frame.

These guards are usually supplied with screw holes through the channel steel frame, spaced at intervals, and the guard is screwed into the jambs of the window frame. For other methods of attaching to window frame, also for arranging them to swing and lock, refer to following pages.



**No. 70 Window Guard with Channel Steel Frame**

IN ORDERING WIRE WINDOW GUARDS ALWAYS STATE WHICH IS THE HEIGHT. THIS IS REQUIRED IN ORDER TO HAVE THE DIAMONDS IN THE MESHES RUNNING VERTICALLY.

In ordering round frame Guards, always give exact overall size you want Guards made, i. e. extreme outside dimensions from out to out of wires clinching around the frame. For channel frame Guards, give exact size of openings in which the Guards are to fit. Measurements for these should be taken very accurately.

Where Wire Guards are to be attached to outside of window frame allow sufficient on all sides for lap.

In round frame Guards that measure 7 feet high or over, we will provide a stiffening rod through center, if desired, without charge. When stiffening rod is wanted for Guards less than 7 feet high there will be an extra charge of 50c (list), per lineal foot.

When center stiffening bar is wanted in channel frame Guards there will be an extra charge of 60c (list), per lineal foot, regardless of size of Guard.

The MESH in diamond mesh wire Guards is the opening or space between parallel wires. (Note illustration of 1 3/4 inch diamond mesh on opposite page.) This rule is established in accordance with the resolution of the National Association of Ornamental Iron & Bronze Manufacturers.

We can furnish SQUARE MESH GUARDS, if preferred, in any size mesh, wire or frame of which diamond mesh guards are made.

For price lists refer to pages 8 and 9.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## No. 60 Crimped Wire Guard, Diamond Mesh

### FOR WINDOWS AND VARIOUS OTHER PURPOSES

List price per guard, with round steel frame in our STANDARD specification—1½ inch diamond mesh, No. 10 wire, ⅜ inch round frame. For dimensions not shown use nearest size.

Sizes	1'0"	1'3"	1'6"	1'9"	2'0"	2'3"	2'6"	2'9"	3'0"	3'3"	3'6"	3'9"	4'0"	4'3"	4'6"	4'9"	5'0"	5'3"	5'6"	5'9"	6'0"
1'0"	5.00	5.00	5.00	5.00	5.00	5.30	5.50	5.70	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00	8.20	8.50
1'3"	5.00	5.00	5.00	5.00	5.30	5.50	5.70	6.00	6.30	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00	8.30	8.50	8.80	9.00
1'6"	5.00	5.00	5.00	5.30	5.50	5.70	6.00	6.30	6.60	6.80	7.10	7.40	7.60	7.80	8.00	8.20	8.50	8.80	9.00	9.30	9.60
1'9"	5.00	5.00	5.30	5.50	5.80	6.00	6.30	6.60	6.90	7.20	7.50	7.80	8.00	8.30	8.50	8.80	9.10	9.30	9.50	9.80	10.20
2'0"	5.00	5.30	5.50	5.80	6.00	6.40	6.60	6.90	7.30	7.70	8.00	8.20	8.60	8.80	9.00	9.30	9.60	9.80	10.00	10.40	10.80
2'3"	5.30	5.50	5.70	6.00	6.40	6.60	6.90	7.30	7.80	8.20	8.40	8.60	9.00	9.20	9.50	9.80	10.20	10.40	10.60	11.00	11.40
2'6"	5.50	5.70	6.00	6.30	6.60	6.90	7.30	7.70	8.20	8.50	8.80	9.10	9.40	9.70	10.00	10.40	10.70	11.00	11.20	11.60	12.00
2'9"	5.70	6.00	6.30	6.60	6.90	7.30	7.70	8.20	8.50	8.80	9.10	9.50	9.80	10.20	10.50	10.90	11.20	11.50	11.80	12.20	12.60
3'0"	6.00	6.30	6.60	6.90	7.30	7.80	8.20	8.50	8.80	9.10	9.50	9.80	10.20	10.60	11.00	11.50	11.80	12.20	12.40	12.80	13.20
3'3"	6.20	6.60	6.80	7.20	7.70	8.20	8.50	8.80	9.10	9.50	9.80	10.20	10.60	11.00	11.40	12.00	12.30	12.70	13.00	13.40	13.70
3'6"	6.40	6.80	7.00	7.50	8.00	8.40	8.80	9.10	9.50	9.80	10.20	10.60	11.00	11.40	11.80	12.40	12.80	13.20	13.60	14.00	14.30
3'9"	6.60	7.00	7.40	7.80	8.20	8.60	9.10	9.50	9.80	10.20	10.60	11.00	11.40	12.00	12.50	13.00	13.40	13.80	14.20	14.60	15.00
4'0"	6.80	7.20	7.60	8.20	8.60	9.00	9.40	9.80	10.20	10.60	11.00	11.40	12.00	12.40	12.90	13.50	14.00	14.30	14.80	15.20	15.60
4'3"	7.00	7.40	7.80	8.30	8.80	9.20	9.70	10.20	10.60	11.00	11.40	12.00	12.40	12.80	13.30	13.80	14.30	14.70	15.10	15.60	16.20
4'6"	7.20	7.60	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.40	11.80	12.50	12.90	13.30	13.80	14.30	14.80	15.40	15.80	16.30	16.80
4'9"	7.40	7.80	8.20	8.80	9.30	9.80	10.40	10.90	11.50	12.00	12.40	13.00	13.50	13.80	14.30	14.80	15.40	15.80	16.30	16.80	17.30
5'0"	7.60	8.00	8.50	9.10	9.60	10.20	10.70	11.20	11.80	12.30	12.80	13.40	14.00	14.30	14.80	15.40	16.00	16.40	16.80	17.40	18.00
5'3"	7.80	8.30	8.80	9.30	9.80	10.40	11.00	11.50	12.20	12.70	13.20	13.80	14.30	14.70	15.40	15.80	16.40	16.80	17.40	18.00	18.50
5'6"	8.00	8.50	9.00	9.50	10.00	10.60	11.20	11.80	12.40	13.00	13.60	14.20	14.80	15.10	15.80	16.30	16.80	17.40	18.00	18.50	19.00
5'9"	8.20	8.80	9.30	9.80	10.40	11.00	11.60	12.20	12.80	13.40	14.00	14.60	15.20	15.60	16.30	16.80	17.40	18.00	18.50	19.00	19.60
6'0"	8.40	9.00	9.60	10.20	10.80	11.40	12.00	12.60	13.20	13.70	14.30	15.00	15.60	16.20	16.80	17.30	18.00	18.50	19.00	19.60	20.20
6'3"	8.60	9.20	9.80	10.40	11.10	11.70	12.30	12.90	13.50	14.00	14.60	15.30	16.00	16.60	17.20	17.80	18.50	19.00	19.60	20.20	20.90
6'6"	8.80	9.40	10.00	10.70	11.40	12.00	12.60	13.20	13.80	14.30	14.90	15.60	16.20	16.90	17.60	18.30	19.00	19.60	20.20	20.90	21.70
6'9"	9.00	9.70	10.40	11.10	11.80	12.40	13.00	13.60	14.20	14.70	15.30	16.00	16.70	17.40	18.00	18.80	19.60	20.20	20.70	21.70	22.20
7'0"	9.20	10.00	10.70	11.40	12.20	12.80	13.40	14.00	14.50	15.10	15.70	16.40	17.10	17.80	18.60	19.40	20.20	20.80	21.20	22.20	22.90
7'3"	9.40	10.20	10.90	11.60	12.40	13.00	13.60	14.20	14.80	15.50	16.20	16.80	17.50	18.20	19.00	19.80	20.50	21.30	21.80	22.90	23.70
7'6"	9.60	10.30	11.00	11.80	12.60	13.20	13.80	14.40	15.10	15.80	16.60	17.20	18.00	18.70	19.40	20.20	21.00	22.00	22.50	23.40	24.40
7'9"	9.80	10.50	11.20	12.00	12.80	13.40	14.00	14.70	15.40	16.20	17.00	17.70	18.40	19.20	20.00	20.70	21.40	22.50	23.10	24.20	25.20
8'0"	10.00	10.70	11.40	12.20	13.00	13.70	14.40	15.10	15.80	16.60	17.40	18.20	18.90	19.60	20.40	21.20	22.00	23.10	23.80	25.00	26.00
8'3"	10.20	10.90	11.70	12.50	13.30	14.00	14.70	15.40	16.20	17.00	17.80	18.60	19.30	20.00	20.80	21.60	22.50	23.60	24.40	25.80	26.80
8'6"	10.40	11.20	12.00	12.80	13.60	14.30	15.00	15.80	16.60	17.40	18.20	19.00	19.70	20.40	21.20	22.00	22.90	24.20	25.10	26.40	27.70
8'9"	10.60	11.40	12.20	13.10	14.00	14.70	15.40	16.20	17.00	17.80	18.60	19.40	20.20	20.90	21.70	22.50	23.40	24.70	25.60	27.20	28.60
9'0"	10.90	11.70	12.50	13.30	14.20	15.00	15.80	16.60	17.40	18.20	19.00	19.80	20.60	21.40	22.20	23.10	24.00	25.40	26.20	28.00	29.90
9'3"	11.10	12.00	12.80	13.60	14.40	15.20	16.00	16.90	17.80	18.60	19.50	20.30	21.10	22.00	22.80	23.60	24.50	26.00	27.00	28.80	30.50
9'6"	11.30	12.20	13.00	13.80	14.60	15.50	16.40	17.30	18.20	19.10	20.00	20.80	21.60	22.40	23.30	24.20	25.00	26.70	27.70	29.70	31.40
9'9"	11.50	12.30	13.10	14.00	14.90	15.80	16.70	17.60	18.60	19.50	20.40	21.30	22.20	23.00	23.80	24.70	25.60	27.20	28.30	30.60	32.50
10'0"	11.70	12.50	13.40	14.30	15.20	16.20	17.00	18.00	19.00	20.00	20.90	21.80	22.60	23.50	24.40	25.30	26.20	28.00	29.00	31.40	33.40

In ordering be sure to state whether the standard specification is desired, or one of the other specifications listed below. For other specifications add to the above list prices the percentage shown below.

¾ inch mesh, No. 14 wire—50 %	1¾ inch mesh, No. 9 wire—0 % (Same as Base)
¾ inch mesh, No. 13 wire—60 %	1¾ inch mesh, No. 8 wire—12½ %
¾ inch mesh, No. 12 wire—75 %	1¾ inch mesh, No. 7 wire—25 %
1 inch mesh, No. 12 wire—25 %	2 inch mesh, No. 8 wire—0 % (Same as Base)
1 inch mesh, No. 11 wire—37½ %	2 inch mesh, No. 7 wire—12½ %
1 inch mesh, No. 10 wire—50 %	2 inch mesh, No. 6 wire—25 %
1¼ inch mesh, No. 11 wire—12½ %	2¼ inch mesh, No. 7 wire—0 % (Same as Base)
1¼ inch mesh, No. 10 wire—25 %	2¼ inch mesh, No. 6 wire—12½ %
1¼ inch mesh, No. 9 wire—37½ %	2¼ inch mesh, No. 5 wire—25 %
1½ inch mesh, No. 10 wire—BASE	2½ inch mesh, No. 6 wire—0 % (Same as Base)
1½ inch mesh, No. 9 wire—12½ %	2½ inch mesh, No. 5 wire—12½ %
1½ inch mesh, No. 8 wire—25 %	2½ inch mesh, No. 4 wire—25 %

#### Guards of odd shapes take special prices.

The above prices are for the guards only and do not include fittings of any kind nor locking devices. For cost of fittings and locking devices, refer to following pages.

In addition to the specifications listed above, we are prepared to make guards of any size mesh, wire or frame that it is practicable to make.

In ordering window guards always state which is the height.

We can furnish SQUARE MESH GUARDS, if preferred, in any size mesh, wire or frame of which diamond mesh guards are made.

Our wire guards are painted by a special dipping process, using the best mineral paint, insuring a uniform and durable coating, generally black, unless otherwise ordered.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## No. 70 Crimped Wire Guard, Diamond Mesh

### FOR WINDOWS AND VARIOUS OTHER PURPOSES

List price per guard, with channel steel frame in our STANDARD specification—1½ inch diamond mesh, No. 10 wire, 1 inch channel frame. For dimensions not shown use nearest size.

Sizes	1'0"	1'3"	1'6"	1'9"	2'0"	2'3"	2'6"	2'9"	3'0"	3'3"	3'6"	3'9"	4'0"	4'3"	4'6"	4'9"	5'0"	5'3"	5'6"	5'9"	6'0"
1'0"	7.30	7.30	7.30	7.30	7.30	7.60	8.00	8.30	8.60	8.90	9.20	9.60	10.00	10.30	10.60	10.90	11.20	11.50	11.80	12.20	12.50
1'3"	7.30	7.30	7.30	7.30	7.60	8.00	8.30	8.60	9.00	9.40	9.70	10.00	10.30	10.60	11.00	11.40	11.70	12.00	12.40	12.80	13.20
1'6"	7.30	7.30	7.30	7.60	8.00	8.40	8.80	9.10	9.50	9.80	10.20	10.60	11.00	11.30	11.60	12.00	12.30	12.60	13.00	13.40	13.80
1'9"	7.30	7.30	7.60	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80	11.20	11.50	11.80	12.20	12.60	13.00	13.30	13.70	14.20	14.60
2'0"	7.30	7.60	8.00	8.40	8.80	9.30	9.80	10.20	10.60	11.00	11.40	11.70	12.00	12.40	12.80	13.20	13.60	14.00	14.50	15.00	15.40
2'3"	7.60	8.00	8.40	8.80	9.30	9.80	10.20	10.60	11.00	11.40	11.80	12.20	12.60	13.00	13.40	13.80	14.20	14.60	15.10	15.60	16.00
2'6"	8.00	8.40	8.80	9.20	9.70	10.20	10.60	11.00	11.40	11.80	12.30	12.70	13.20	13.60	14.00	14.40	14.80	15.20	15.70	16.20	16.70
2'9"	8.30	8.60	9.10	9.60	10.20	10.60	11.00	11.40	11.80	12.30	12.80	13.20	13.80	14.20	14.60	15.00	15.40	15.80	16.30	16.80	17.40
3'0"	8.60	9.00	9.50	10.00	10.50	11.00	11.40	11.80	12.40	12.90	13.40	13.80	14.40	14.80	15.20	15.60	16.00	16.50	17.00	17.50	18.00
3'3"	8.80	9.40	9.80	10.40	11.00	11.40	11.80	12.30	12.90	13.40	13.80	14.40	15.00	15.40	15.80	16.30	16.80	17.20	17.70	18.20	18.70
3'6"	9.20	9.70	10.20	10.80	11.30	11.80	12.30	12.80	13.30	13.80	14.40	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50
3'9"	9.60	10.00	10.60	11.20	11.70	12.20	12.70	13.20	13.60	14.40	15.00	15.40	16.00	16.50	17.00	17.60	18.20	18.80	19.30	19.80	20.30
4'0"	10.00	10.50	11.00	11.50	12.00	12.60	13.20	13.80	14.40	15.00	15.60	16.00	16.60	17.20	17.80	18.40	19.00	19.60	20.00	20.50	21.00
4'3"	10.30	10.80	11.30	11.80	12.40	13.00	13.60	14.20	14.80	15.40	16.00	16.50	17.20	17.80	18.40	19.00	19.60	20.00	20.60	21.10	21.70
4'6"	10.60	11.00	11.60	12.20	12.80	13.40	14.00	14.60	15.20	15.80	16.50	17.00	17.60	18.20	18.80	19.40	20.00	20.60	21.20	21.80	22.30
4'9"	10.90	11.40	12.00	12.60	13.20	13.80	14.40	15.00	15.60	16.30	17.00	17.60	18.20	18.80	19.40	20.00	20.60	21.20	21.80	22.40	23.10
5'0"	11.20	11.80	12.30	13.00	13.60	14.20	14.80	15.40	16.00	16.80	17.60	18.20	18.80	19.40	20.00	20.60	21.20	21.80	22.40	23.10	23.80
5'3"	11.50	12.00	12.60	13.30	14.00	14.60	15.20	15.80	16.50	17.20	18.00	18.80	19.40	20.00	20.60	21.20	21.80	22.40	23.10	23.80	24.40
5'6"	11.80	12.40	13.00	13.70	14.40	15.10	15.70	16.30	17.00	17.70	18.50	19.30	20.00	20.60	21.20	21.80	22.40	23.10	23.80	24.40	25.10
5'9"	12.20	12.80	13.40	14.20	14.90	15.60	16.20	16.80	17.50	18.20	18.90	19.80	20.50	21.10	21.80	22.40	23.10	23.80	24.40	25.10	25.80
6'0"	12.50	13.20	13.80	14.50	15.30	16.00	16.70	17.40	18.00	18.70	19.50	20.30	21.00	21.70	22.30	23.00	23.70	24.40	25.10	25.80	26.60
6'3"	12.70	13.40	14.20	14.90	15.70	16.40	17.10	17.80	18.60	19.30	20.00	20.80	21.50	22.20	22.90	23.70	24.40	25.10	25.80	26.60	27.40
6'6"	13.00	13.70	14.40	15.20	16.00	16.70	17.50	18.30	19.10	19.80	20.60	21.40	22.00	22.70	23.40	24.20	24.90	25.60	26.40	27.30	28.20
6'9"	13.30	14.00	14.80	15.60	16.40	17.20	18.00	18.80	19.60	20.40	21.20	22.00	22.70	23.40	24.20	24.90	25.60	26.30	27.00	28.00	28.90
7'0"	13.60	14.40	15.20	16.00	16.80	17.60	18.40	19.30	20.20	21.00	21.80	22.60	23.30	24.00	24.80	25.50	26.20	27.00	27.70	28.70	29.70
7'3"	14.00	14.80	15.60	16.40	17.20	18.00	18.80	19.70	20.60	21.40	22.30	23.10	23.80	24.60	25.40	26.20	27.00	27.80	28.60	29.50	30.50
7'6"	14.30	15.10	16.00	16.80	17.60	18.40	19.30	20.20	21.00	21.80	22.80	23.60	24.40	25.20	26.00	26.80	27.40	28.20	28.80	30.00	31.40
7'9"	14.60	15.40	16.20	17.10	18.00	18.80	19.70	20.60	21.50	22.40	23.30	24.00	24.80	25.60	26.50	27.40	28.20	29.00	29.60	31.20	32.20
8'0"	15.00	15.80	16.60	17.50	18.40	19.30	20.20	21.10	22.00	22.90	23.80	24.60	25.40	26.20	27.10	28.00	28.80	29.70	30.40	31.80	33.00
8'3"	15.20	16.00	16.90	17.80	18.80	19.70	20.60	21.50	22.50	23.40	24.30	25.20	26.00	26.90	27.80	28.60	29.50	30.40	31.10	32.70	34.00
8'6"	15.50	16.40	17.30	18.20	19.20	20.20	21.10	22.00	23.00	23.80	24.80	25.80	26.60	27.40	28.30	29.20	30.20	31.10	32.00	33.40	34.80
8'9"	15.80	16.70	17.60	18.60	19.60	20.50	21.50	22.50	23.50	24.40	25.40	26.40	27.20	28.00	28.90	29.80	30.80	32.00	32.80	34.30	35.70
9'0"	16.20	17.10	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	27.80	28.70	29.60	30.50	31.30	32.70	33.70	35.20	36.80
9'3"	16.50	17.40	18.40	19.40	20.40	21.40	22.40	23.40	24.40	25.40	26.40	27.40	28.30	29.20	30.20	31.10	32.00	33.40	34.50	36.20	37.70
9'6"	16.80	17.80	18.80	19.80	20.80	21.80	22.80	23.80	24.80	25.80	26.80	27.80	28.80	29.80	30.80	31.80	32.70	34.20	35.50	37.20	38.70
9'9"	17.20	18.20	19.20	20.20	21.20	22.20	23.20	24.20	25.20	26.20	27.30	28.30	29.30	30.30	31.40	32.50	33.40	35.00	36.40	38.00	39.60
10'0"	17.60	18.60	19.60	20.60	21.60	22.60	23.60	24.60	25.60	26.70	27.80	28.80	29.80	30.90	32.00	33.20	34.20	35.70	37.40	39.00	40.70

In ordering be sure to state whether the standard specification is desired, or one of the other specifications listed below. For other specifications add to the above list prices the percentage shown below.

¾ inch mesh, No. 14 wire—50 %	1¾ inch mesh, No. 9 wire—0 % (Same as Base)
¾ inch mesh, No. 13 wire—60 %	1¾ inch mesh, No. 8 wire—12½ %
¾ inch mesh, No. 12 wire—75 %	1¾ inch mesh, No. 7 wire—25 %
1 inch mesh, No. 12 wire—25 %	2 inch mesh, No. 8 wire—0 % (Same as Base)
1 inch mesh, No. 11 wire—37½ %	2 inch mesh, No. 7 wire—12½ %
1 inch mesh, No. 10 wire—50 %	2 inch mesh, No. 6 wire—25 %
1¼ inch mesh, No. 11 wire—12½ %	2¼ inch mesh, No. 7 wire—0 % (Same as Base)
1¼ inch mesh, No. 10 wire—25 %	2¼ inch mesh, No. 6 wire—12½ %
1¼ inch mesh, No. 9 wire—37½ %	2¼ inch mesh, No. 5 wire—25 %
1½ inch mesh, No. 10 wire—BASE	2½ inch mesh, No. 6 wire—0 % (Same as Base)
1½ inch mesh, No. 9 wire—12½ %	2½ inch mesh, No. 5 wire—12½ %
1½ inch mesh, No. 8 wire—25 %	2½ inch mesh, No. 4 wire—25 %

Guards of odd shapes take special prices.

The above prices are for the guards only and do not include fittings of any kind nor locking devices. For cost of fittings and locking devices, refer to following pages. An extra charge is also made for covering bars of flat steel.

In addition to the specifications listed above, we are prepared to make guards of any size mesh, wire or frame that it is practicable to make.

In ordering Window Guards always state which is the height.

We can furnish SQUARE MESH GUARDS, if preferred, in any size mesh, wire or frame of which diamond mesh guards are made.

Our wire guards are painted by a special dipping process, using the best mineral paint, insuring a uniform and durable coating, generally black, unless otherwise ordered.



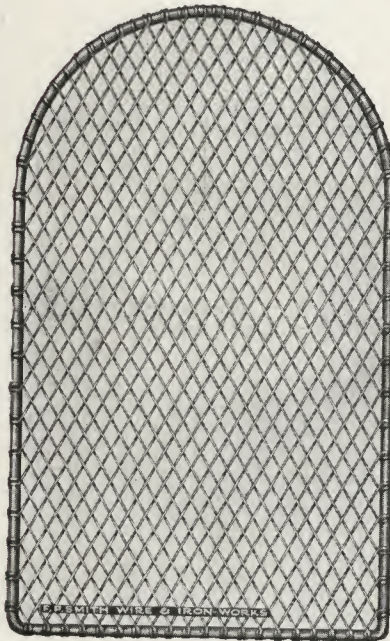


**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Crimped Wire Window Guards with Round Steel Frame**

In ordering round frame guards, always give exact overall size you want guards made, i. e. extreme outside dimensions from out to out of wires clinching around the frame. For Diamond Mesh Guards, please state which is the height.



No. 61 Wire Window Guard

### **No. 61 WIRE WINDOW GUARD**

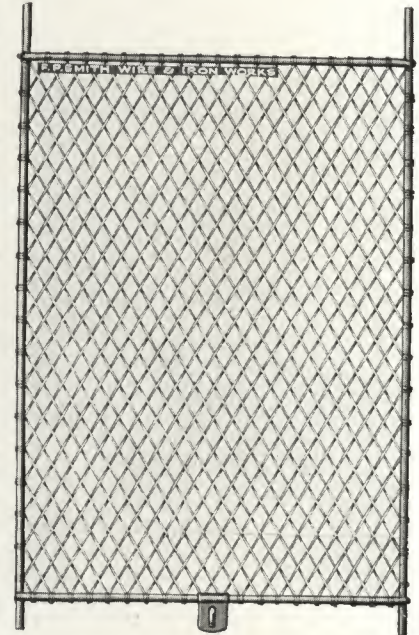
is generally used for Churches, Public Buildings etc. Made with round, oval or gothic top to suit any shape opening.

This style Wire Guard takes the same price as No. 60 Wire Guard listed on page 8 with an extra charge of 50c (list) per lineal foot of curved frame. Minimum charge \$3.00 (list) per guard.

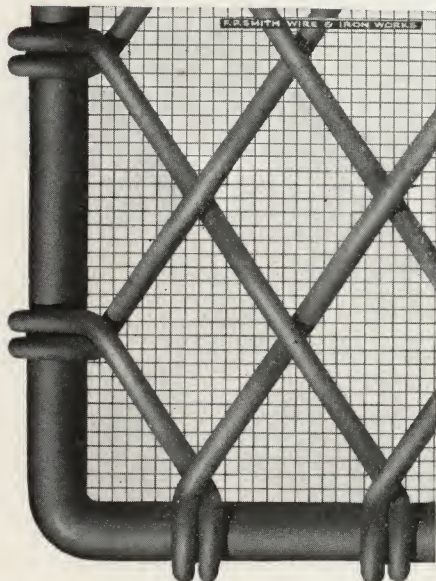
### **No. 62 WIRE WINDOW GUARD**

is specially adapted for store doors etc. The side rods of the frame extend unequally at top and bottom as shown, and are held in place by screw-eyes, from which they can be easily disengaged.

This style wire guard takes the same price as No. 60 Wire Guard listed on page 8 with an extra charge for projecting rods of \$2.00 (list) per guard. Hasp and staple can be provided at the bottom as shown, or for one or both vertical sides of guard, at 50c per set (list) extra. Where stronger fastenings than screw-eyes are wanted, we recommend angle steel lugs. These can be furnished at 30c (list) each, extra.



No. 62 Wire Window Guard



No. 63 Wire Window Guard

### **No. 63 WIRE WINDOW GUARD**

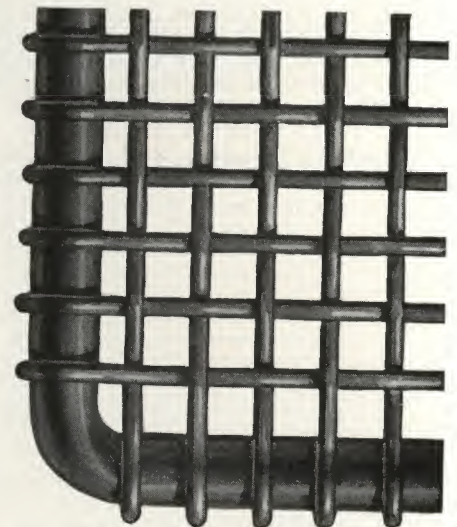
is lined with window screen cloth. This combined guard and screen answers a double purpose; it not only protects the glass and keeps out burglars, but it keeps out rats, mice, bugs, flies and other insects, and is the proper guard for covering every cellar, basement, kitchen and barn window.

This style Wire Guard takes the same price as No. 60 Wire Guard listed on page 8 with extra charges for lining with window screen as follows:

	List per Sq. Ft.
12 mesh Black Painted.....	30c
14 mesh Galvanized .....	36c
14 mesh Bronze .....	45c

### **No. 65 EXTRA HEAVY WIRE PRISON GUARD**

is made with heavy wire in small square mesh with heavy round steel frame as shown. It is generally attached to the iron window guard, preventing passing through weapons, tools etc. Send particulars for prices.



No. 65 Extra Heavy Wire Prison Guard

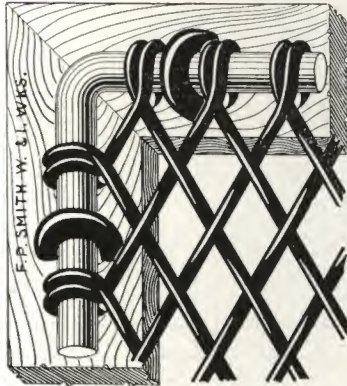
Our wire guards are painted by a special dipping process, using the best mineral paint, insuring a uniform and durable coating, generally black, unless otherwise ordered. We can use galvanized wire for the mesh work if desired, simply painting the frame, at a slight additional cost; or we can hot-galvanize the guards after made, if preferred, thus covering the entire surface with a rust proof coating and securely locking the wires together at all intersections, at an additional price, which varies according to the specifications of the guards.





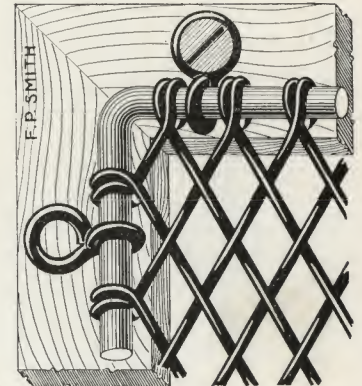
## Crimped Wire Window Guards with Round Steel Frame (Continued)

In ordering round frame guards, always give exact overall size you want Guards made, i. e., extreme outside dimensions from out to out of wires clinching around the frame. For Diamond Mesh Guards, please state which is the height.

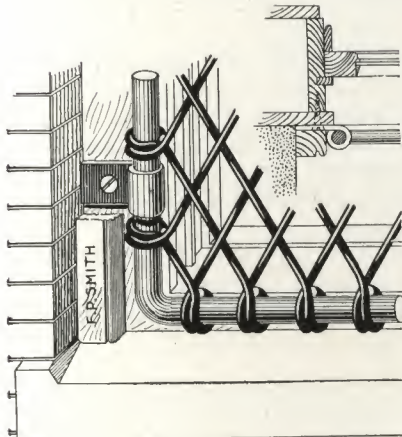


Detail No. 12

Round steel frame guards are generally attached to the outside of window frame with staples, as shown by **Detail No. 12**. Screw-eyes, made of round wire (See **Detail No. 13**) for fastening with screws, instead of staples, can be furnished, if preferred, at an extra charge of 10 cents each (list).

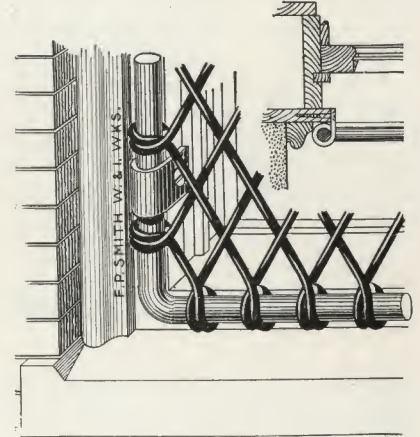


Detail No. 13

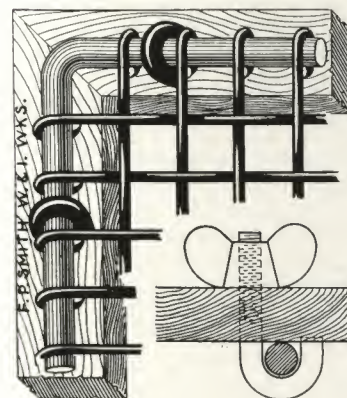


Detail No. 15

**Details Nos. 15 and 16** show method of attaching round steel frame wire guards to the window frame with small flat steel clips, which can be put either on the outside, as per **Detail No. 15**, or on the inside, as per **Detail No. 16**. We can furnish these clips, when desired, at an additional charge of 20 cents each (list).



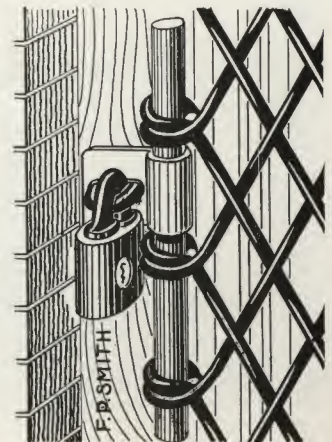
Detail No. 16



Detail No. 14

Where guards are to be removed often, for cleaning glass, etc., hook-bolts with thumb nuts, can be used, as shown by **Detail No. 14**, at an additional charge of 50 cents each (list).

Round frame guards can be arranged to swing, and to lock by means of hasp and staple, as shown by **Detail No. 18**, for 50c per set (list); this does not include the padlock itself, which is generally furnished by customer. Guards can swing on staples, round wire screw eyes, or flat clips, the latter making the best job.



Detail No. 18

ANY OF THESE FITTINGS CAN BE USED EITHER WITH DIAMOND OR SQUARE MESH GUARDS.



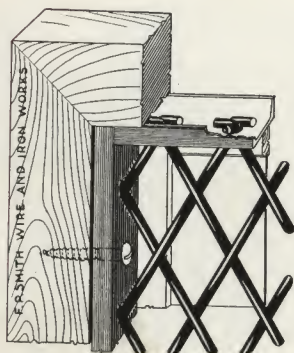


**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**

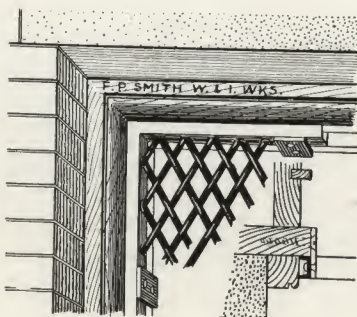


## **Crimped Wire Window Guards with Channel Steel Frame**

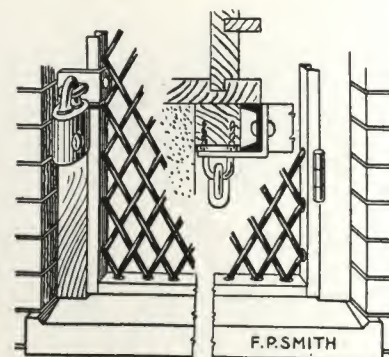
In ordering channel frame guards, give exact size of openings in which the guards are to fit; measurements for these should be taken very accurately. For Diamond Mesh Guards, please state which is the height.



Detail No. 19



Detail No. 34



Detail No. 35

**Detail No. 19** shows the usual way of attaching channel frame guards, i. e., by means of wood screws, spaced about one foot apart all along the frame.

Where greater security is desired, small steel straps can be used, which are riveted to the channel frame and arranged to fasten to the window frame with wood screws, all as shown by **Detail No. 34**; this prevents any person removing the screws from the outside. For Asylums, Jails, etc., the

straps can be reversed so the screws cannot be taken out from the inside. For these straps add 20 cents each (list).

Channel frame guards can be arranged to swing with hinges, and provided with hasp and staple, to lock on the outside, as shown by **Detail No. 35**, for \$3.25 each guard (list), (not including the padlock, which is generally furnished by customer); or they can be arranged to lock on the inside for \$3.50 each (list).

## **Combination Wire Window Guard and Sign**



No. 80 Combination Wire Window Guard and Sign

This combination serves a two-fold purpose; substantial protection against breakage of costly plate glass and a valuable and permanent advertising medium in the sign. Usually made of 1½ inch diamond mesh, No. 10 wire, 1 inch by ½ inch channel steel frame, with top and bottom rails of square tubing. Heavy steel brackets are provided as shown, and the letters are of heavy galvanized sheet steel.

The view of our office building on page 3 shows this combination guard and sign extending the full width of building.

PRICES WILL BE QUOTED ON RECEIPT OF PARTICULARS.

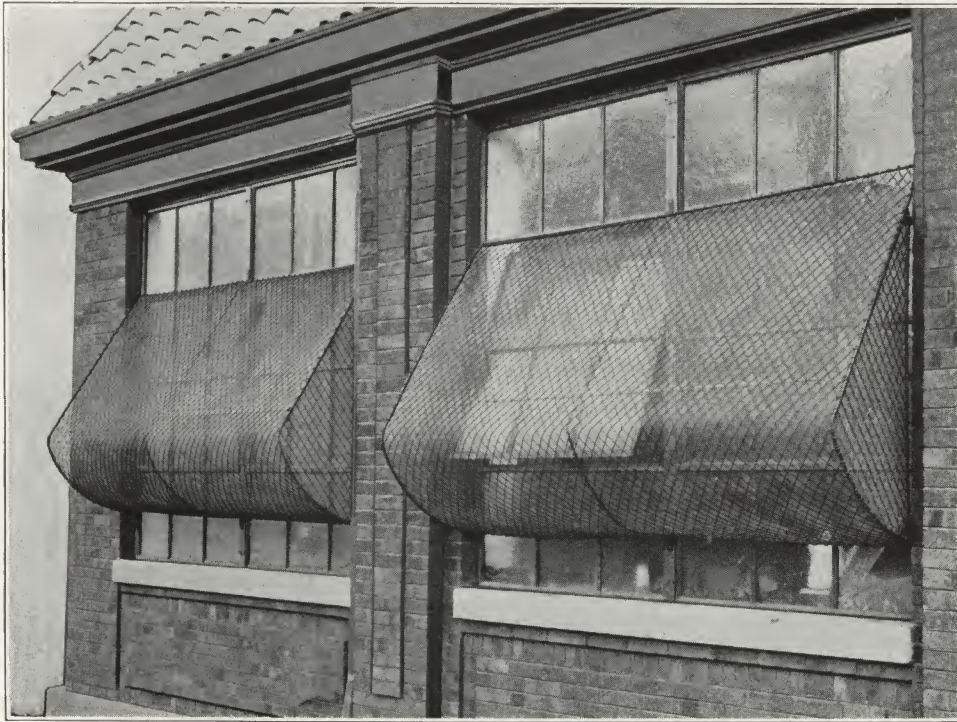




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Crimped Wire Window Guards, *Diamond Mesh***



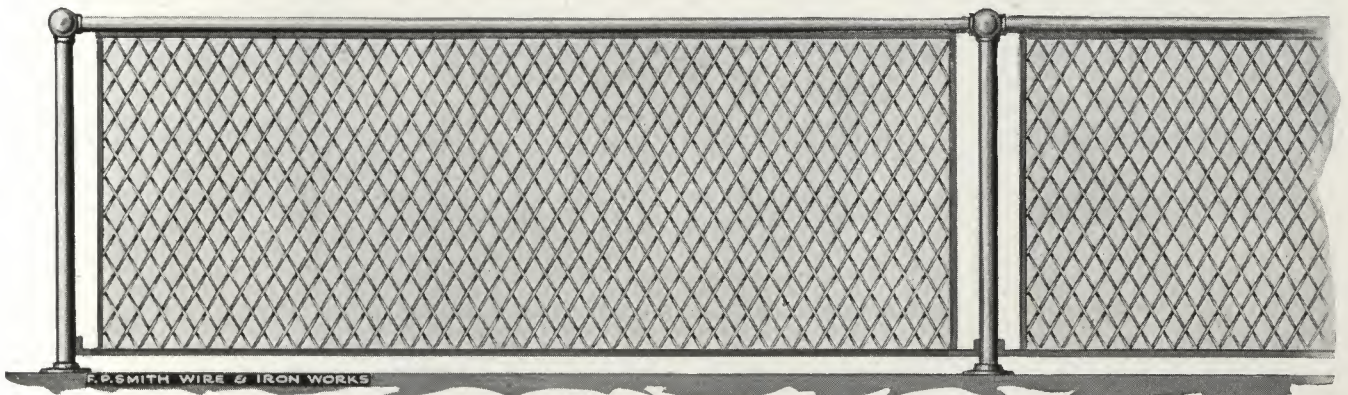
No. 17 Wire Window Guard—for Pivot Type Sash Windows

These Guards are made to cover the pivoted portion of window only, as shown in illustration, or if full protection against glass breakage and burglary is desired, the balance of window can be protected with flat guards.

This style Guard permits the opening of window for ventilation and guards against unscrupulous factory employees passing valuable tools and other articles through the window to confederates outside.

They can be furnished with either round steel or channel steel frame, in any size mesh and wire wanted. We can line them with fine mesh copper wire cloth to prevent dust from entering, or with fly screen. Prices will be quoted on receipt of particulars.

## **Combination Wire Guard and Tubular Railing**



No. 28 Combination Wire Guard and Tubular Railing

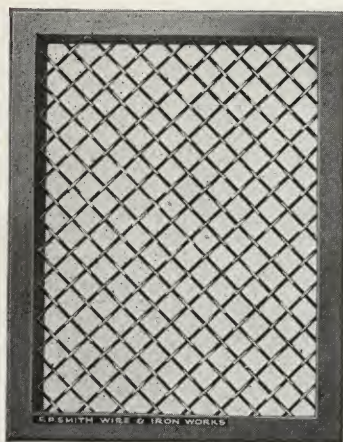
This combination affords substantial and efficient protection around areaways, stairways, balconies, fly-wheels, pits and many other places. Usually made of 1½ inch diamond mesh, No. 10 intermediate crimp wire, with channel steel frame. The pipe for top rail and posts is generally 2 inch (outside diameter). Posts are equipped with heavy flanges to attach to floor. Prices will be quoted on application.





## Wire Ventilator or Register Guards WITH ANGLE STEEL FRAME

**WIRE VENTILATOR or REGISTER GUARDS** are rapidly taking the place of the clumsy iron register faces, as architects and engineers recognize their great superiority. They afford no area for dust accumulation, are far more durable, being practically unbreakable. They also cost less to install, as they are made to order to fit exact openings, obviating the necessity for clipping or recutting the openings.



No. 1 Ventilator Guard  
(Round Wire, Diamond Mesh)

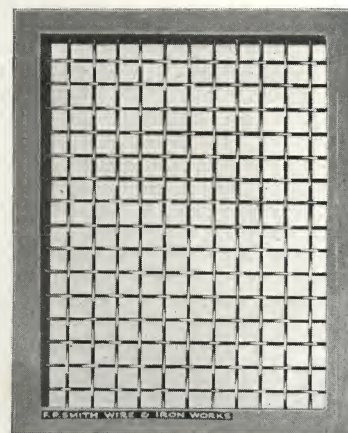
### NO. 1 AND NO. 2 VENTILATOR GUARDS

List price per guard in our STANDARD specification— $1\frac{1}{2}$  inch mesh (either diamond or square), No. 10 crimped round wire, 1 inch x 1 inch x  $\frac{1}{8}$  inch angle steel frame. The frame is welded at corners.

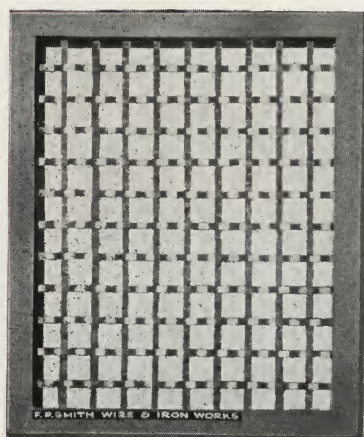
FOR DIMENSIONS NOT SHOWN USE NEAREST SIZE

Sizes	1'0"	1'3"	1'6"	1'9"	2'0"	2'3"	2'6"	2'9"	3'0"
1' 0"	9.15	9.15	9.15	9.15	9.15	9.50	10.00	10.40	10.75
1' 3"	9.15	9.15	9.15	9.15	9.50	10.00	10.40	10.75	11.25
1' 6"	9.15	9.15	9.15	9.50	10.00	10.50	11.00	11.40	11.90
1' 9"	9.15	9.15	9.50	10.00	10.50	11.00	11.50	12.00	12.50
2' 0"	9.15	9.50	10.00	10.50	11.00	11.65	12.25	12.75	13.25
2' 3"	9.50	10.00	10.50	11.00	11.65	12.25	12.75	13.25	13.75
2' 6"	10.00	10.50	11.00	11.50	12.15	12.75	13.25	13.75	14.25
2' 9"	10.40	10.75	11.40	12.00	12.75	13.25	13.75	14.25	14.75
3' 0"	10.75	11.25	11.90	12.50	13.15	13.75	14.25	14.75	15.50
3' 3"	11.00	11.75	12.25	13.00	13.75	14.25	14.75	15.40	16.15
3' 6"	11.50	12.15	12.75	13.50	14.15	14.75	15.40	16.00	16.65
3' 9"	12.00	12.50	13.25	14.00	14.65	15.25	15.90	16.50	17.00
4' 0"	12.50	13.15	13.75	14.40	15.00	15.75	16.50	17.25	18.00

GUARDS OF ODD SHAPES TAKE SPECIAL PRICES



No. 2 Ventilator Guard  
(Round Wire, Square Mesh)



No. 5 Ventilator Guard  
(Flat Wire, Square Mesh)

### NO. 5 VENTILATOR GUARD

Usually made  $1\frac{1}{2}$  inch square mesh,  $\frac{5}{16}$  inch crimped flat wire, 1 inch x 1 inch x  $\frac{1}{8}$  inch angle steel frame. The frame is welded at corners.

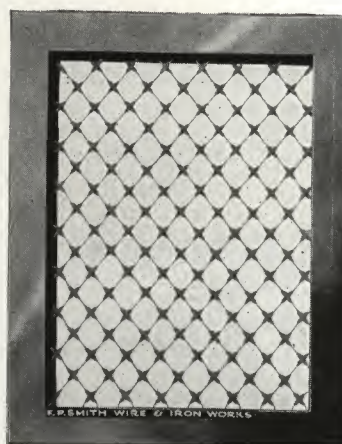
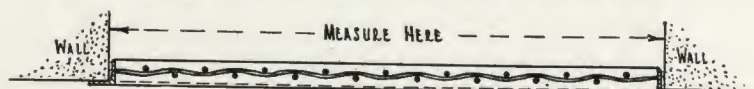
For prices on this style Ventilator Guard, add 80% to the above list prices.

### NO. 6 VENTILATOR GUARD

Usually made  $1\frac{1}{2}$  inch diamond mesh,  $\frac{5}{16}$  inch twisted flat wire, 1 inch x 1 inch x  $\frac{1}{8}$  inch angle steel frame. The frame is welded at corners.

For prices on this style Ventilator Guard, triple the above list prices.

Our Ventilator Guards are made so that one leg of angle frame and the wire mesh extend into the opening with the other leg of angle lapping face of wall. Refer to detail below.



No. 6 Ventilator Guard  
(Flat Wire, Twist Pattern,  
Diamond Mesh)

Above prices are for steel material, painted or bronzed finish; can be electro-plated, if desired, at an additional cost.

Prices will be quoted on request on larger sizes and other specifications. Rosettes can be placed in corners at a small extra cost.

In ordering give the exact size of openings which guards are to fit.

VENTILATING GUARDS CAN BE FURNISHED OF ANY STYLE GRILLE SHOWN ON PAGE 21.





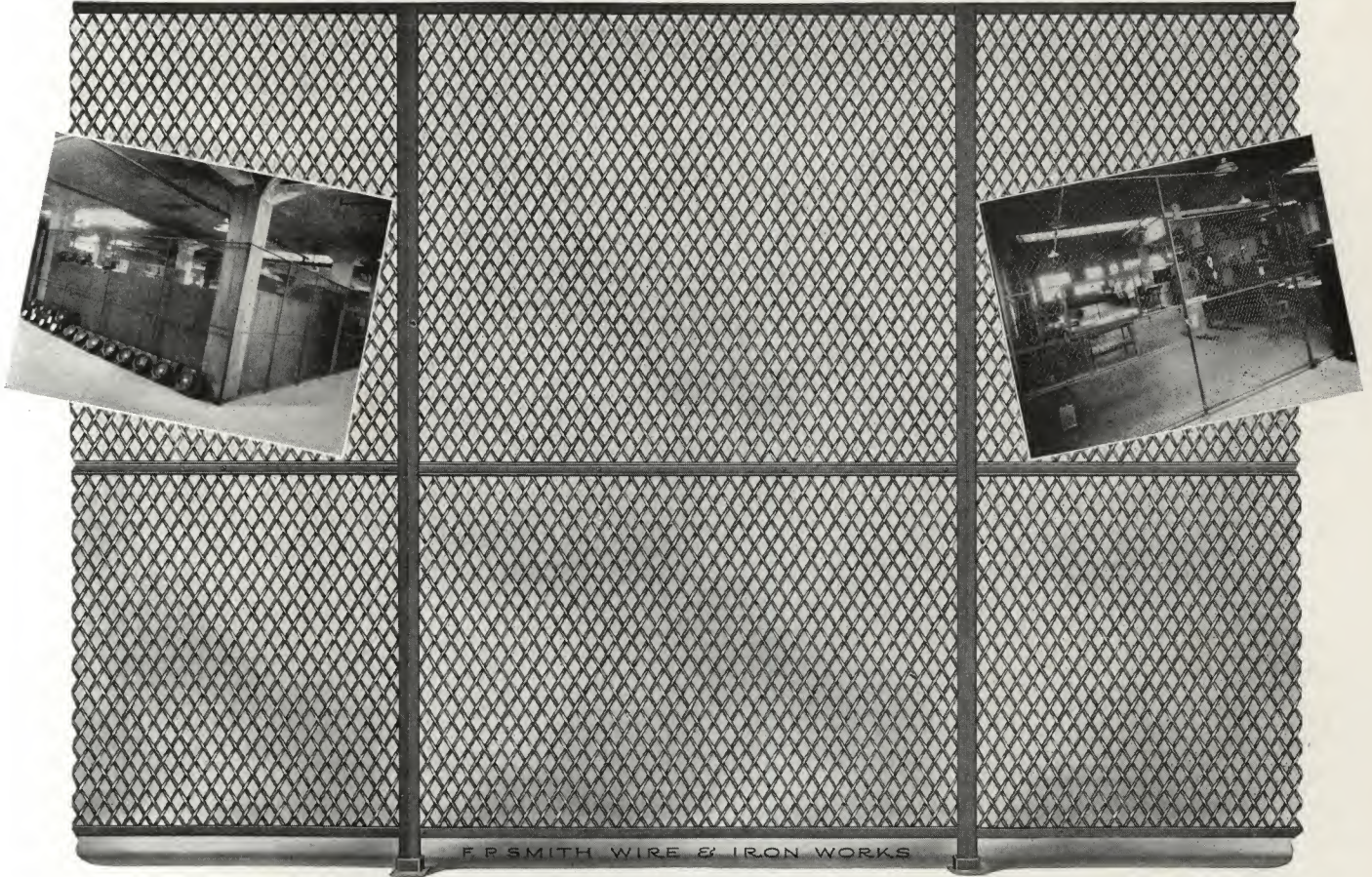
**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Smith Standard Wire Partitions**

**An Excellent Enclosure for Stock Room, Tool Room and Warehouse**

**MADE IN PANELS OF ONE STANDARDIZED WIDTH, 5 FEET  
MADE IN FOUR STANDARD HEIGHTS, 7 FEET, 8 FEET, 9 FEET AND 10 FEET**



SMITH STANDARD WIRE PARTITIONS are exceptionally adaptable for stock and tool-room enclosures, department divisions in factories, warehouses and offices, for building store-rooms in apartment buildings or any place requiring a neat appearing, indestructible, fire-proof, fully ventilated, stealth proof and moderately priced enclosure.

Our Standard Wire Partitions do not shut off the daylight nor increase your lighting bills, because they leave the room as well lighted as it was before their installation.

Your insurance rate is reduced by installing our Wire Partitions, as they allow no dark corners for the collection of dirt and rubbish. Thousands of

fires occur annually by reason of fires starting in piles of rubbish in dark and neglected corners.

All panels of the same standard heights are built identical with bolt holes punched in the steel channel frames alike, rendering them completely interchangeable. Partitions can be rearranged any time without loss. Additional panels to match can be furnished from stock, as your needs expand or conditions change.

Our Standard Wire Partitions are easily installed by unskilled workmen.

In most cases the size of enclosure can be arranged to use our standard 5-foot panels entirely. Where this cannot be done, special width panels can be ordered to fill in at the ends or corners.

**Carried In Stock For Immediate Delivery**

**FOR SPECIFICATIONS REFER TO FOLLOWING PAGE.**





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Smith Standard Wire Partitions (Continued)

### SPECIFICATIONS

**Size of Panels**—One standard width, 5 feet. Four standard heights, 7 feet, 8 feet, 9 feet and 10 feet.

**Special Panels**—Made in any width to fill in at ends or corners. Special shaped Panels can be furnished if necessary to suit special conditions. Special sizes furnished, if required, to increase height of partition to ceiling.

**Fabric**— $1\frac{1}{2}$  inch diamond mesh, No. 10 gauge wire (.135). The best grade of steel wire of even temper, specially drawn for this particular purpose is used. All wires are intercrimped forming uniform meshes and preventing the wires from spreading.

**Frame**—1 inch x  $\frac{1}{2}$  inch open hearth steel channel.

**Center Bar**—Center stiffening bar formed by securely bolting together through fabric, 2 sections of  $\frac{3}{4}$  inch x  $\frac{3}{8}$  inch open hearth steel channel, which are tenoned into side frames.

**Capping Bars**— $1\frac{1}{2}$  inch x  $\frac{1}{2}$  inch open hearth steel channel. Capping bars extend from center of one panel to center of next, thereby breaking joints.

**Bracing**—The capping bars supply adequate bracing for a reasonably long partition. Additional braces can be furnished, if necessary, to support from either floor or ceiling, at a slight extra cost.

**Floor Sockets**—Floor legs on all Panels come equipped with our special adjustable iron sockets, whereby turning a screw enables the Panel to be adjusted to uneven floors.

**Corner Posts**—Tubular steel,  $1\frac{3}{8}$  inch O. D., with iron base to attach to floor. Posts are tapped to receive Standard Panels. Our posts can be furnished to extend to ceiling or to imbed into concrete floor, if desired. We also furnish corner posts, of 1 inch x 1 inch x  $\frac{1}{8}$  inch open hearth steel angle, if preferred.

**Cut-outs and Hand Holes**—Cut-outs provided in Panels when necessary. Hand holes provided in Panels or doors where desired.

**Wicket with Shelf**—Refer to illustration and description on page 18.

**Doors**—One standard height, 6 feet, 6 inches, with transom panel above to conform with height of partition. Swinging doors, 3 feet wide. Sliding doors, 5 feet wide. Special sizes can be made to order.

**Locks**—Bronze cylinder, operated by key from outside, by flush knob from inside. All of our locks are master-keyed and arranged so the same master-key will operate both the swinging and sliding door locks. They are provided with heavy protection plates and other special features to prevent tampering with the lock.

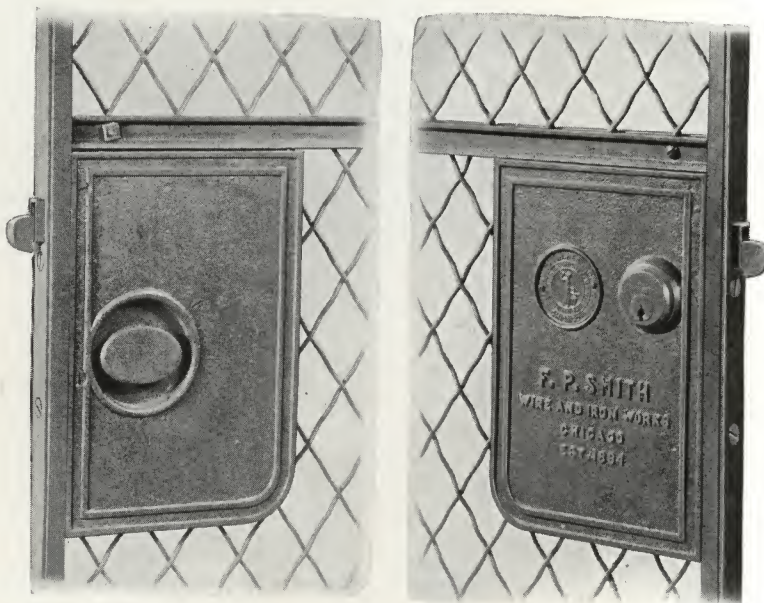
**Hangers**—Sliding doors are equipped with heavy grey iron, ball bearing hangers.

**Track**— $2\frac{1}{4}$  inch x  $\frac{5}{16}$  inch open hearth flat steel.

**Finish**—The best grade of olive green paint is applied by our special dipping process.

**Bolts**—Necessary bolts are furnished without extra charge. Our Partitions are shipped complete ready to install.

We will furnish diagram with complete instructions for installing with each order.



We illustrate above front and back views of the special Lock with which our doors are equipped. Note the neat and substantial construction. The heavy protection plates are made in one piece of special metal, and are not to be compared with the protection plates commonly used, made of sheet steel.

**Carried In Stock For Immediate Delivery**

**FOR PRICE LIST REFER TO FOLLOWING PAGE.**





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Smith Standard Wire Partitions (Continued)**

**An Excellent Enclosure for Stock Room, Tool Room and Warehouse**

**MADE IN PANELS OF ONE STANDARDIZED WIDTH, 5 FEET  
MADE IN FOUR STANDARD HEIGHTS, 7 FEET, 8 FEET, 9 FEET AND 10 FEET**

### **PRICE LIST**

PANELS, size 5 feet wide by 7 feet high.....each,	<b>\$14.00</b>
PANELS, size 5 feet wide by 8 feet high.....each,	<b>15.00</b>
PANELS, size 5 feet wide by 9 feet high.....each,	<b>18.00</b>
PANELS, size 5 feet wide by 10 feet high.....each,	<b>20.00</b>

Prices on Panels include Capping Bars and Floor Sockets.

SWINGING DOORS, 3 feet wide by 6 feet, 6 inches high, with  
Transom Panels to conform with height of partition, each **60.00**

SLIDING DOORS, 5 feet wide by 6 feet, 6 inches high, with  
Transom Panels to conform with height of partition, each **65.00**

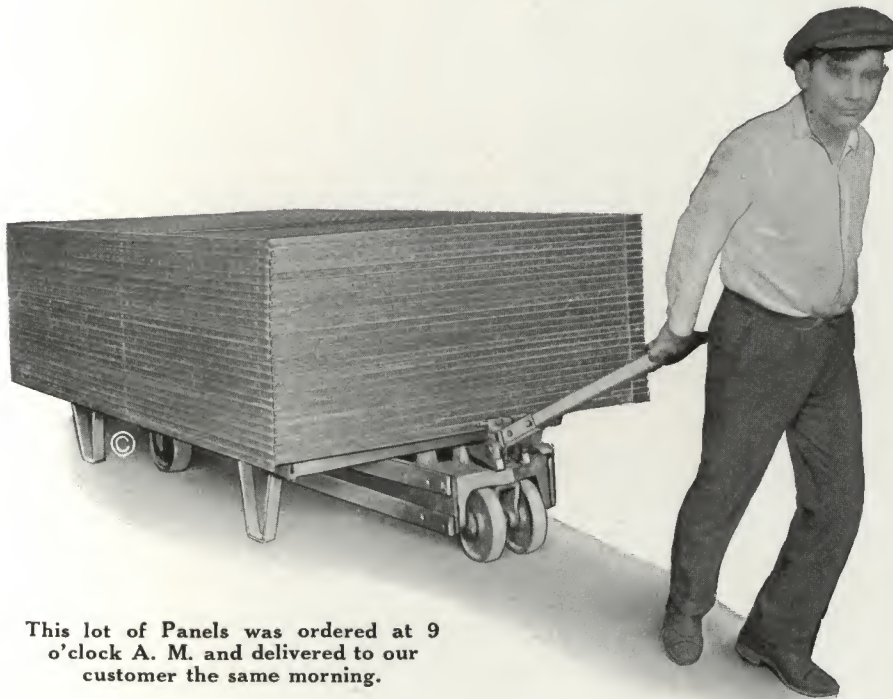
TUBULAR CORNER POSTS .....each, **7.00**

ANGLE CORNER POSTS .....each, **4.00**

COMBINATION WICKET AND SHELF .....each, **30.00**

Price on Wicket and Shelf includes building in prior to shipment.

DISCOUNT TO THE TRADE



Diamond Mesh Crimped Wire Fabric is far superior to any other fabric used in a partition, for the simple reason that each wire running diagonally from one member of frame to another member of frame acts as a brace in itself. Added to this, the crimps in the wires securely lock all intersecting wires, producing additional rigidity.

Our partitions cannot be sprung out of shape. They are the strongest Standard Wire Partitions made.

This lot of Panels was ordered at 9 o'clock A. M. and delivered to our customer the same morning.

CARRIED IN STOCK FOR IMMEDIATE DELIVERY.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Smith Standard Wire Partitions (Continued)**

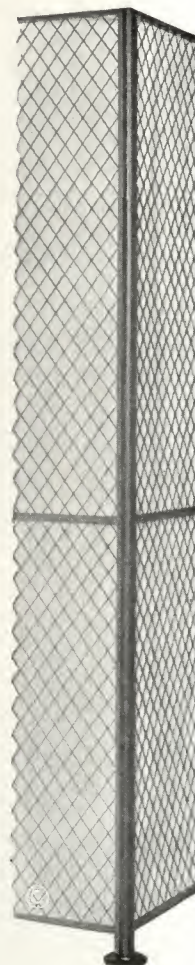
**Carried in Stock for Immediate Delivery**

SMITH STANDARD WIRE PARTITIONS, like other Smith Products, are of the highest quality. Raw materials that enter into their construction are purchased only from mills which are known to produce quality products. All materials are subjected to rigid inspection and tests before being accepted for use. Fabrication is done under our careful surveillance, by skillful and reliable men of long experience, enabling us to guarantee unexcelled workmanship.

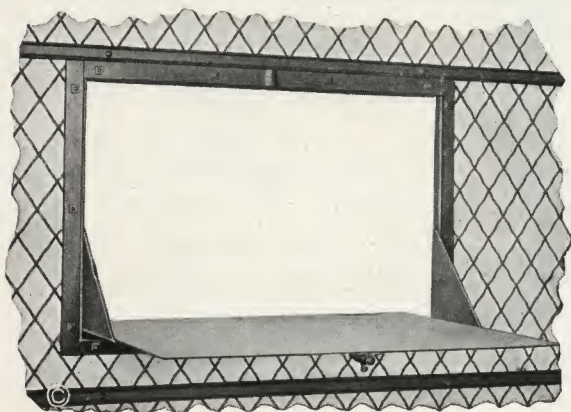
You can depend on SMITH PARTITIONS to always give satisfaction under the most strenuous service.



A view of one of our many installations, showing many valuable tools being protected



View of tubular steel corner post



### **Combination Wicket and Shelf**

Size, 20 inches wide by 12 inches high

Shelf is hinged to frame so it can be raised to close wicket opening. Arranged to lock with a special shove bolt at top.

We can build wickets in prior to shipping or they can be sent separately and easily applied on the job.

Special size wickets can be made to order.

**OUR STANDARD WIRE PARTITIONS CAN BE FURNISHED WITH A SHEET STEEL BASE WHEN DESIRED.**

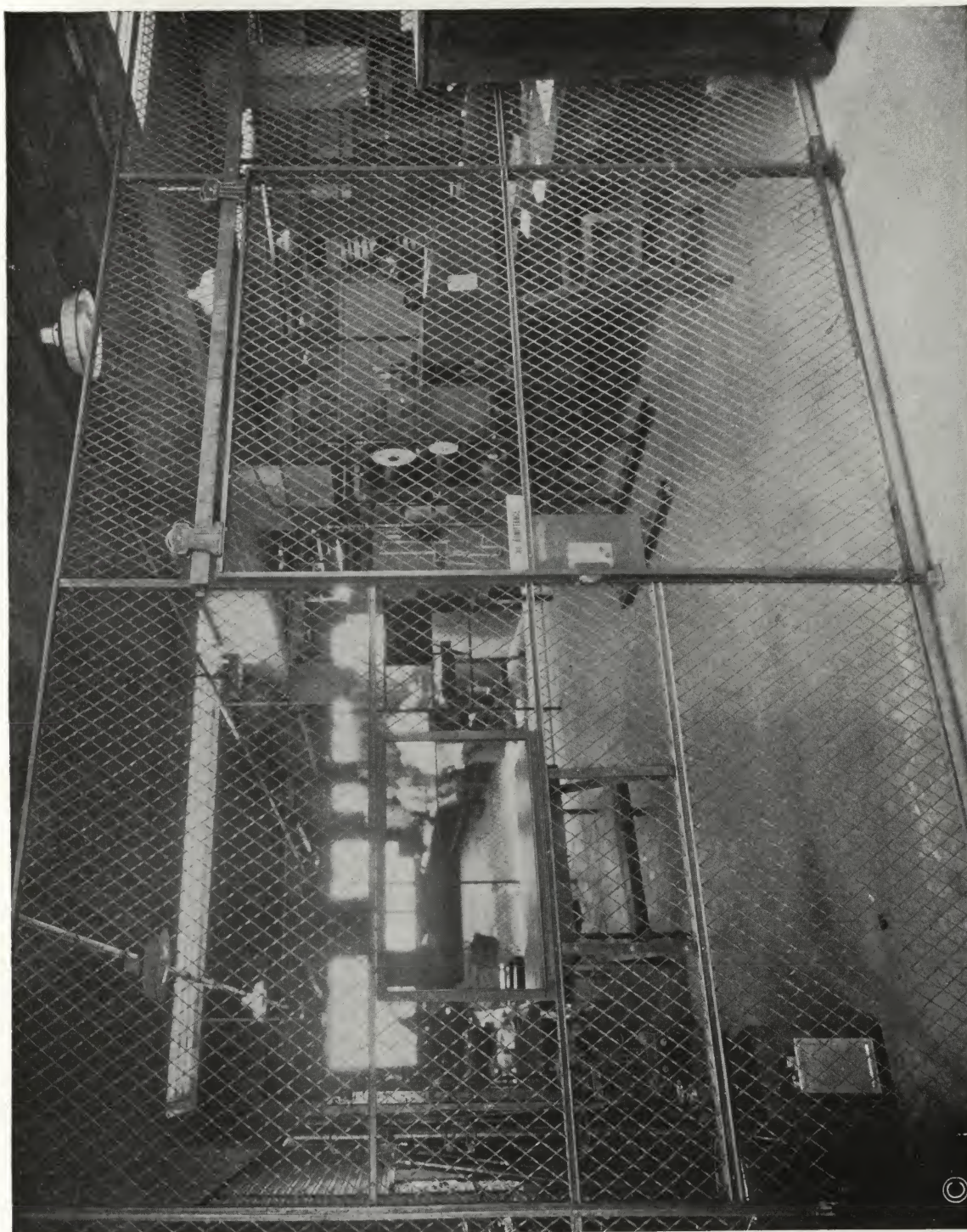




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Smith Standard Wire Partitions (Continued)**



This is a general view of one of our installations, showing a sliding door and combination wicket and shelf

We wish to emphasize the fact that our Panel Partitions are completely standardized in construction and can be supplied immediately from stock.

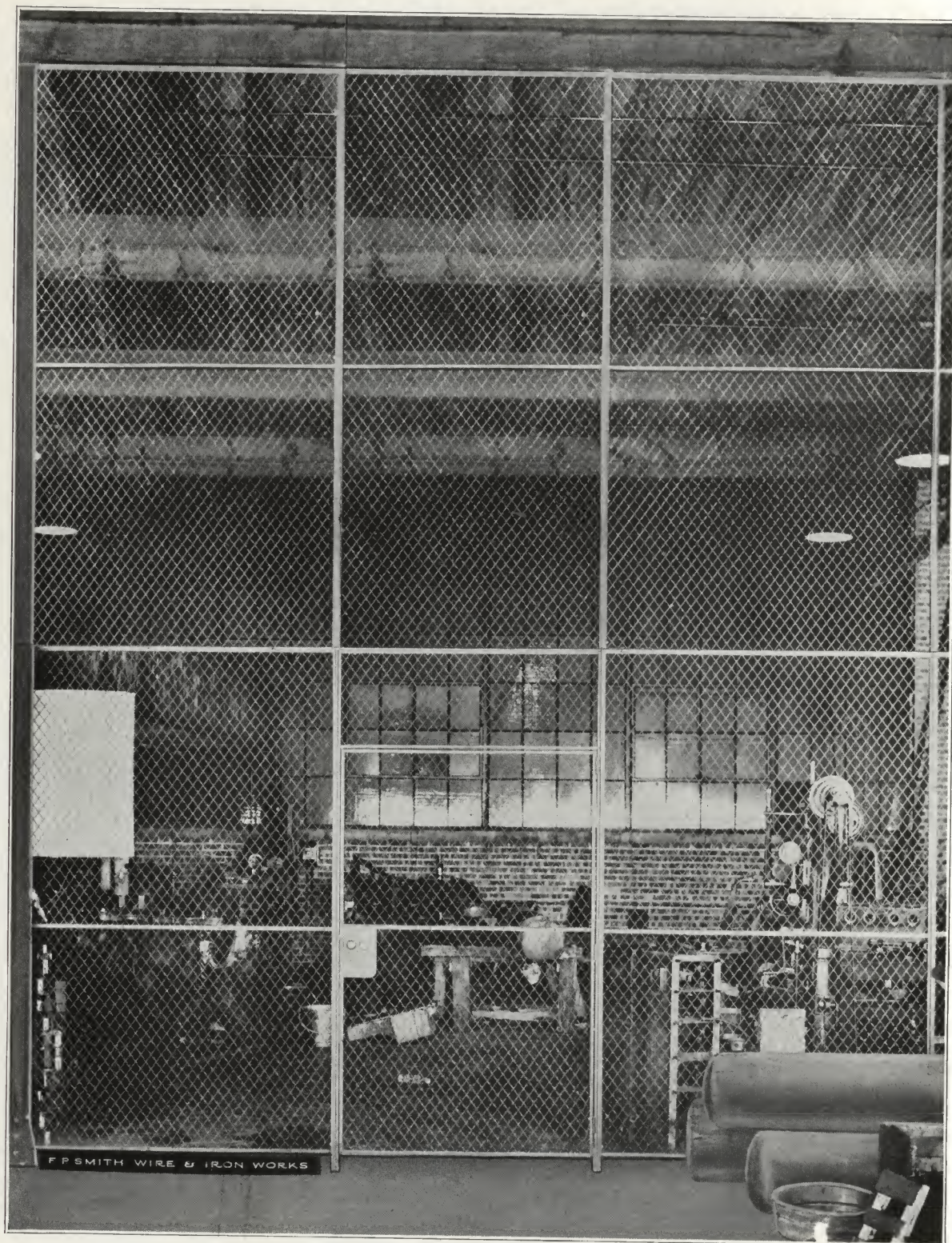




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Smith Standard Wire Partitions (Continued)**



This is a view of one of our many installations, showing standard size panels used, the 8 foot height below and the 9 foot height above, extending to ceiling.

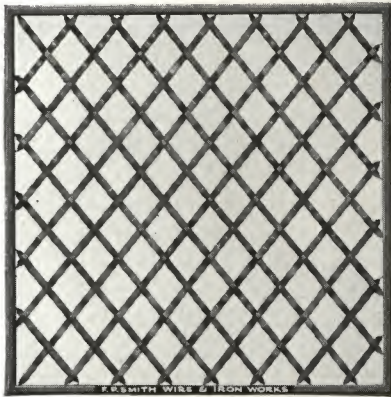




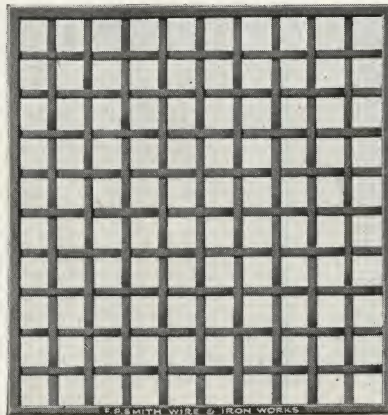
# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



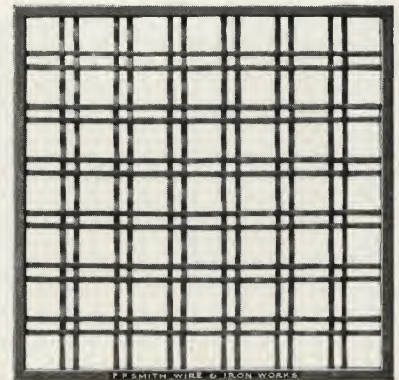
## Grilles



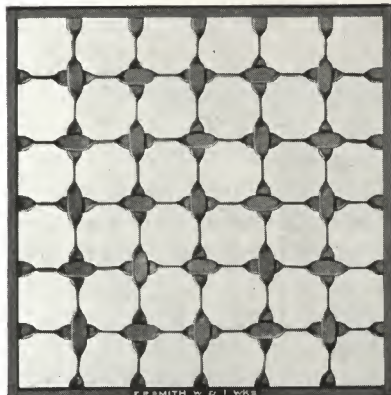
No. 3 GRILLE  
Crimped Flat Wire



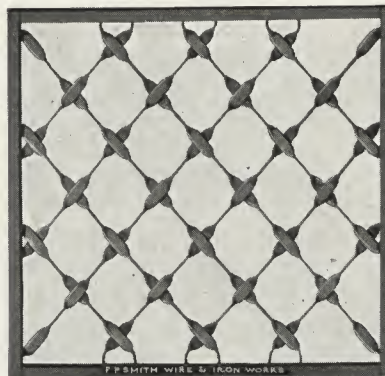
No. 4 GRILLE  
Crimped Flat Wire



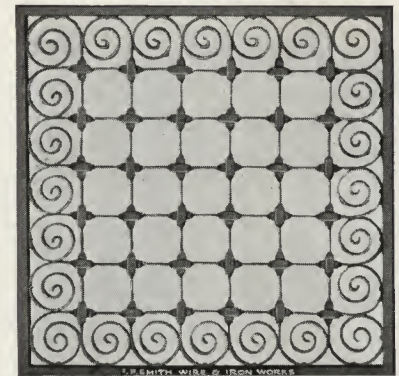
No. 5 GRILLE  
Crimped Flat Wire



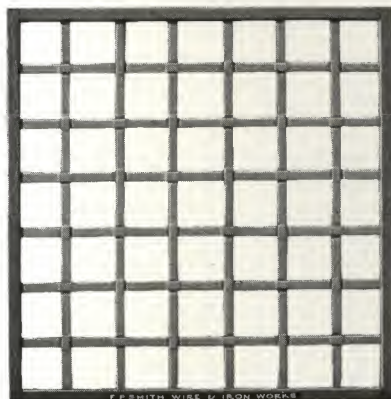
No. 6 GRILLE  
Twisted Flat Wire



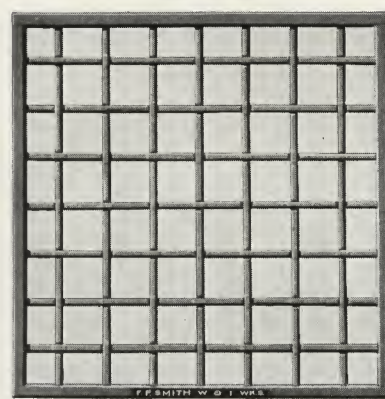
No. 7 GRILLE  
Twisted Flat Wire



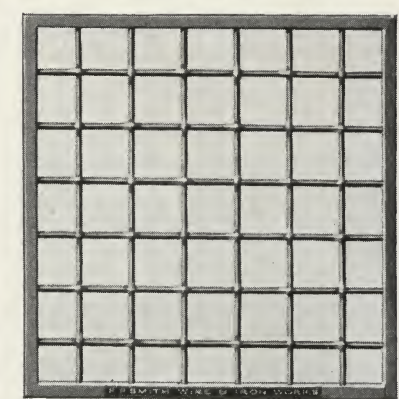
No. 8 GRILLE  
Twisted Flat Wire—Scroll Border



No. 14 GRILLE  
Pressed Flat Wire



No. 9 GRILLE  
Pressed Square Wire—Set Square  
LIST PRICES PER SQUARE FOOT



No. 12 GRILLE  
Pressed Square Wire—Set on Diamond

Style No.	Polished Solid Brass		Electro-plated Steel	
	Framed	Unframed	Framed	Unframed
3.....	\$5.70	\$3.70	\$4.30	\$2.60
4.....	5.00	3.00	3.60	2.15
5.....	6.00	4.00	4.70	2.85
6.....	6.00	4.00	4.60	2.85
7.....	7.00	5.00	5.70	4.00
8.....	7.00	5.00	5.70	4.00
9.....	6.15	4.05	4.65	3.15
12.....	6.45	4.35	4.95	3.45
14.....	5.55	3.45	4.05	2.55

	Painted or Bronzed Steel	
	Framed	Unframed
	\$2.45	\$1.60
	2.00	1.30
	2.70	1.70
	2.60	1.70
	3.60	2.60
	3.60	2.60
	3.00	2.25
	3.30	2.55
	2.40	1.65

NOTE: Grilles less than 24 in. high or containing less than 5 square feet each, at special prices.  
Grilles Nos. 3, 4, 6, 7, 8 and 14 usually made  $1\frac{1}{2}$  inch mesh,  $\frac{1}{8}$  inch flat wire; grille No. 5, large mesh  $1\frac{1}{8}$  inch, small mesh  $\frac{1}{8}$  inch,  $\frac{1}{8}$  inch flat wire; grilles Nos. 9 and 12,  $1\frac{1}{2}$  inch mesh,  $\frac{1}{8}$  inch square wire.

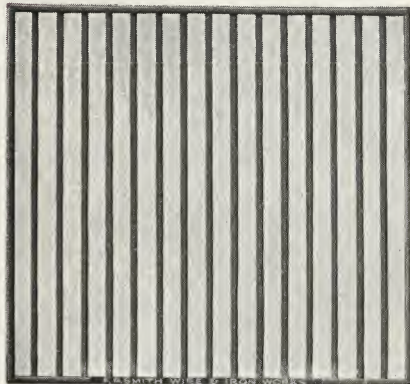




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO

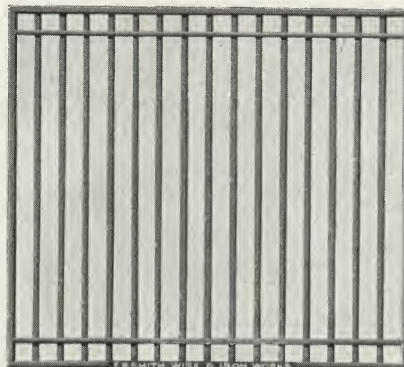


## Grilles (Continued)



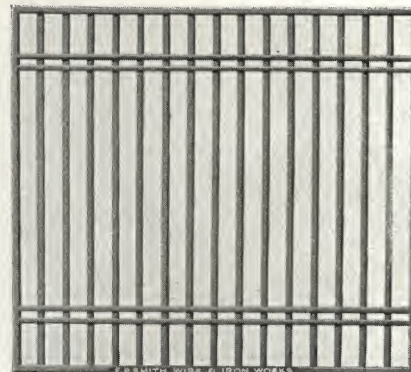
No. 21 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$6.00  
Polished and Electro-plated Steel.. 4.50  
Painted or Bronzed Steel..... 3.00



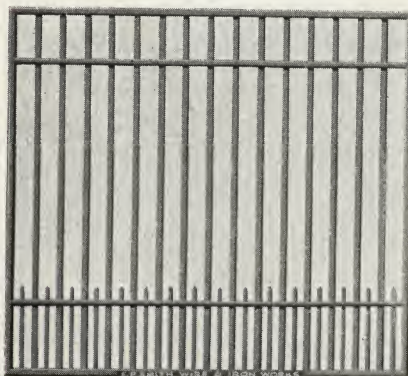
No. 22 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$6.75  
Polished and Electro-plated Steel.. 5.25  
Painted or Bronzed Steel..... 3.50



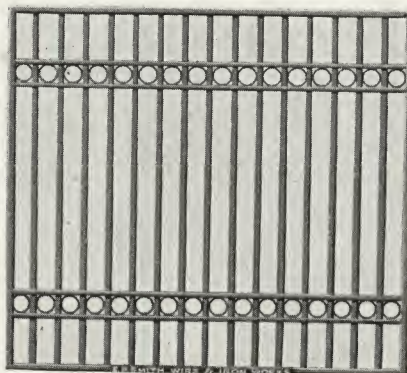
No. 23 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$7.50  
Polished and Electro-plated Steel.. 6.00  
Painted or Bronzed Steel.....3.75



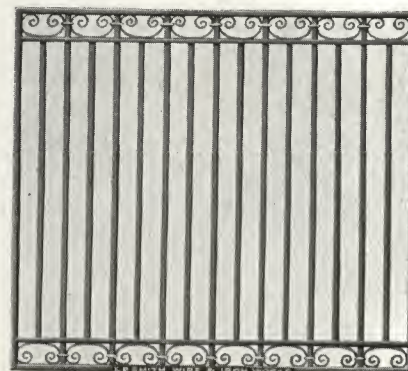
No. 24 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$8.25  
Polished and Electro-plated Steel.. 6.75  
Painted or Bronzed Steel..... 5.00



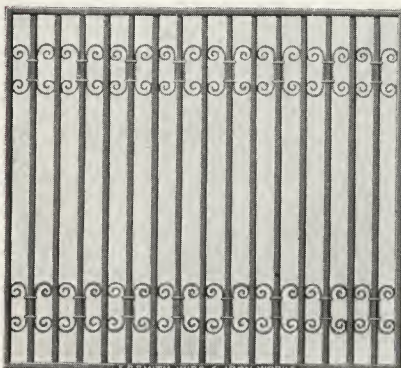
No. 25 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$9.00  
Polished and Electro-plated Steel.. 7.50  
Painted or Bronzed Steel..... 5.25



No. 26 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$8.50  
Polished and Electro-plated Steel.. 7.00  
Painted or Bronzed Steel..... 5.00



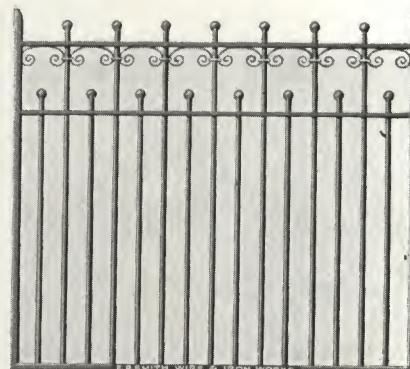
No. 27 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$7.50  
Polished and Electro-plated Steel 6.00  
Painted or Bronzed Steel..... 3.75



No. 28 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$7.50  
Polished and Electro-plated Steel 6.00  
Painted or Bronzed Steel..... 3.75



No. 30 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze..\$9.00  
Polished and Electro-plated Steel.. 7.50  
Painted or Bronzed Steel..... 5.25

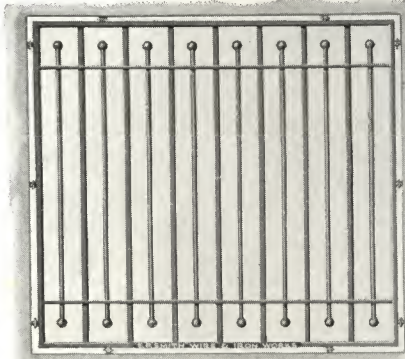
Grilles shown above usually made of 5-16 inch square uprights, spaced 1½ inches apart or ⅜ inch square uprights, spaced 2 inches apart, with flat cross bars and frame.

ESTIMATES ON SPECIAL DESIGNS AND FINISHES WILL BE SUBMITTED ON RECEIPT OF PARTICULARS.



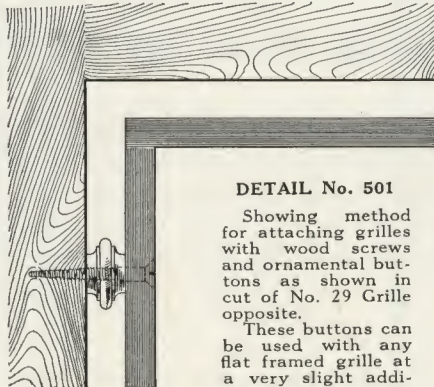


## Grilles, Etc. (Continued)



No. 29 GRILLE

Per sq. ft.  
Polished or Dull Brass or Bronze...\$8.25  
Polished and Electro-plated Steel.. 6.75  
Painted or Bronzed Steel..... 5.00



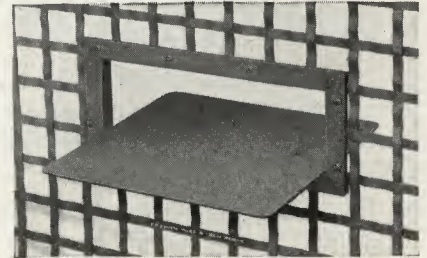
DETAIL No. 501

Showing method for attaching grilles with wood screws and ornamental buttons as shown in cut of No. 29 Grille opposite.

These buttons can be used with any flat framed grille at a very slight additional cost.

For sizes of material, etc., generally used in the grilles, see opposite page, except that Grille No. 30 is usually made with round uprights and Grille No. 29 with alternating round and square uprights.

NOTE: Grilles less than 24 in. high or containing less than 5 square feet each, at extra price.



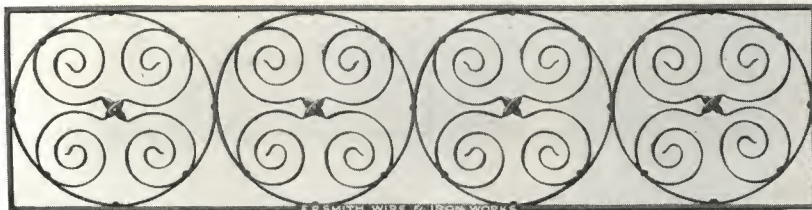
No. 2 CASH HOLE

With Polished Solid Brass Shelf

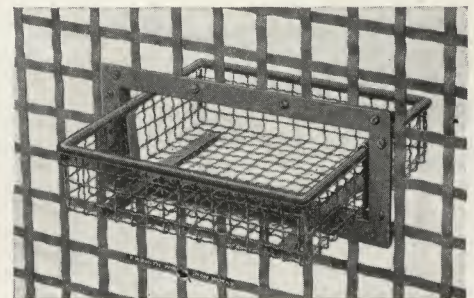
Price .....each, \$15.00



No. 32 GRILLE BORDER



No. 33 GRILLE BORDER



No. 3 CASH HOLE

With Polished Solid Brass Basket

Price .....each, \$20.00

Scroll Grille Borders used at the top or center of elevator enclosures and cabs, counter railings and similar work, add a pleasing decorative effect. They are generally made 6 inches to 8 inches high and can be furnished either with or without the frame. Can be made of steel, brass or bronze and in any desired finish. Also of Monel metal, Aluminum and Stainless Steel. Prices on application.



No. 15 Grille



No. 16 Grille



No. 17 Grille

We illustrate above a few of the numerous designs of artistic scroll grilles we have executed. These can be furnished in painted or bronzed steel, electro-plated steel or in solid brass or bronze. Other designs will be submitted on application or specific designs of architects carried out to the minutest detail. When ordering or writing for prices specify sizes and number of each size wanted. Also of Monel metal, Aluminum and Stainless Steel.





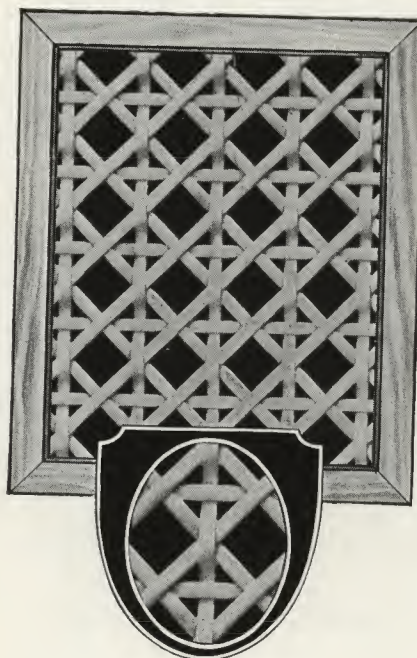
**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **CANEGRILLE** **is Something New in Metal Grilles**

**CANEGRILLE**, shown by illustration below, is a **REVELATION** in woven metal. It is a fabric made up of cane-shaped wire strands, woven together in the old favorite pattern of Open Cane Webbing, the standard design (with full size of mesh) being shown in the illustration. Besides being ornamental, it is very firm and rigid, as all the strands are securely interlocked in the weaving and cannot be displaced or twisted out of alignment.

**CANEGRILLE** can be used with wood frames (let into slots, or set between mouldings), or with metal frames of various shapes, to which it can be attached by bolting, riveting, welding, soldering, etc. When furnished in steel, it can be painted or enameled in any desired color; if furnished in bronze or brass, it can be used in the natural finish, or it can be polished, or electro-plated in any finish required.



**No. 10 DESIGN**  
(Insert Shows Actual Size)

**CANEGRILLE** is particularly adapted for screens, counter-railings, radio and music cabinets, screen doors, metal furniture, book-case doors, radiator covers, ventilating guards, etc., in fact, any place where a light ornamental metal grille is required.

**CANEGRILLE** is kept **IN STOCK** in the above design, in rolls 36 inches wide and 25 and 50 feet long, in steel (cold-rolled) and bronze, in the natural finish; it can be cut, fitted and finished to suit your requirements, at very short notice. Other **CANEGRILLE** designs (in similar geometrical patterns) can be furnished at short notice.

### **PRICE LIST**

Cold-rolled Steel, natural finish.....per sq. ft., **\$0.80**  
Bronze, natural finish.....per sq. ft., **1.65**

Size of wire in above design, .080 x .026. Wire curved on one side.

**CANEGRILLE**, whether of cold-rolled steel or bronze, is woven from a high temper, special analysis stock produced for this particular purpose.

The cutting of **CANEGRILLE** to required sizes and shapes is a simple matter with either hand shears or standard machine cutters.

**SAMPLES SUBMITTED ON APPLICATION.**

**DISCOUNT TO THE TRADE.**

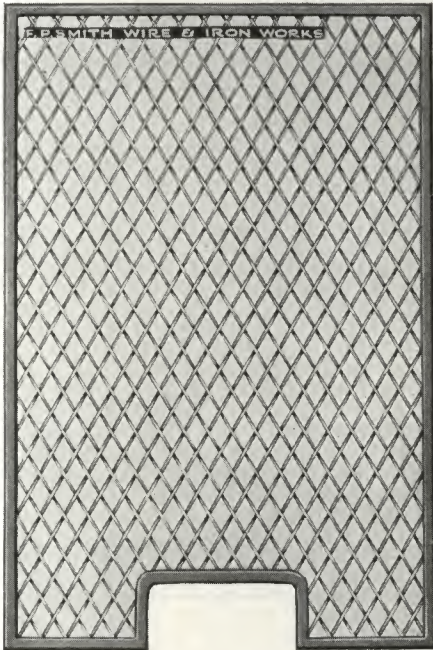




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



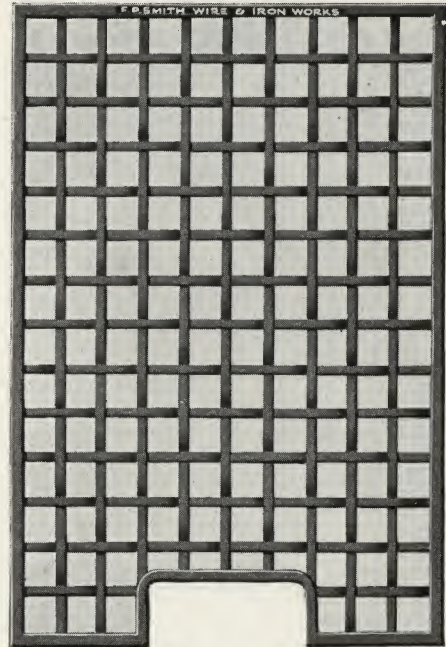
## Wickets



No. 61 WICKET

Crimped Round Wire—Painted or Bronzed Steel

Size or Smaller	Stationary	To Swing
18 in. wide by 24 in. high....each,	\$18.00	\$28.00
20 in. wide by 27 in. high....each,	19.00	29.00
24 in. wide by 30 in. high....each,	20.00	30.00

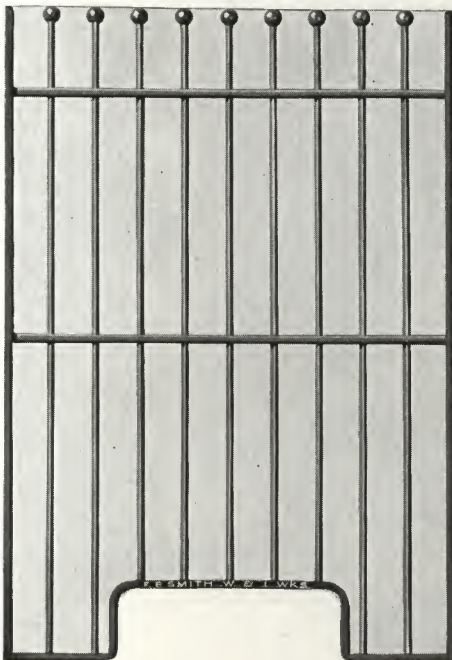


No. 62 WICKET

Crimped Flat Wire—Polished and Electro-plated Steel

Size or Smaller	Stationary	To Swing
18 in. wide by 24 in. high....each,	\$34.00	\$44.00
20 in. wide by 27 in. high....each,	37.00	47.00
24 in. wide by 30 in. high....each,	40.00	50.00

Can also be furnished in painted or bronzed steel or in polished solid brass.

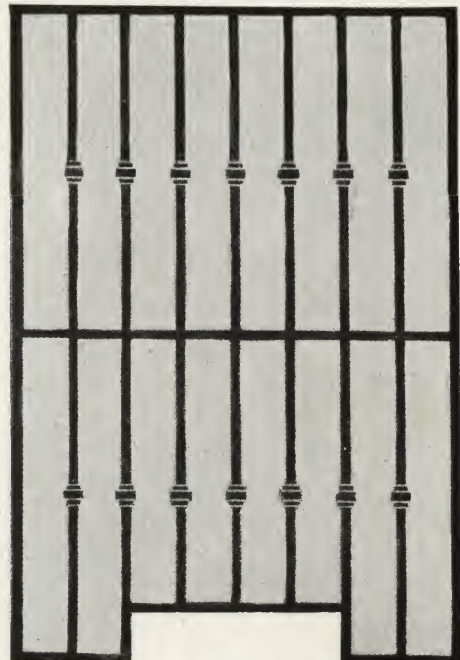


No. 60 WICKET

Polished and Electro-plated Steel

Stock Sizes	Stationary	To Swing
18 in. wide by 24 in. high....each,	\$25.00	\$31.00
18 in. wide by 27 in. high....each,	27.00	33.00

THESE SIZES ARE CARRIED IN STOCK FOR IMMEDIATE DELIVERY. Also made in solid brass or bronze.



No. 63 WICKET

Size or Smaller	Electro-plated Steel	Solid Bronze
18 in. wide by 24 in. high....each,	\$55.00	\$70.00
20 in. wide by 27 in. high....each,	65.00	80.00
24 in. wide by 30 in. high....each,	80.00	95.00

If made to swing and lock add \$10.00 to list price.

OTHER SIZES MADE TO ORDER.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



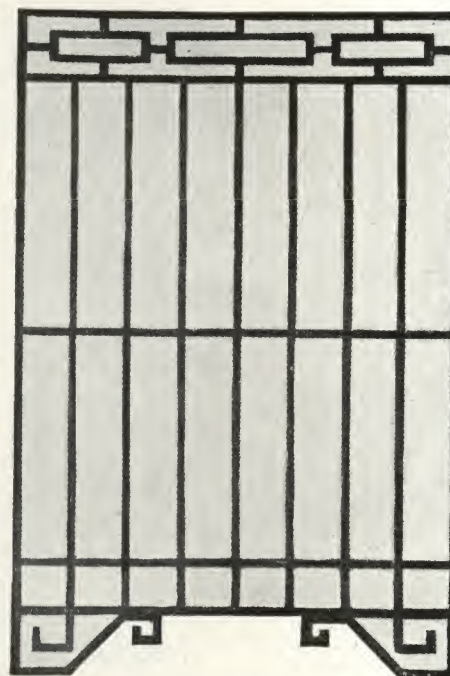
## Wickets (Continued)



**No. 64 WICKET**

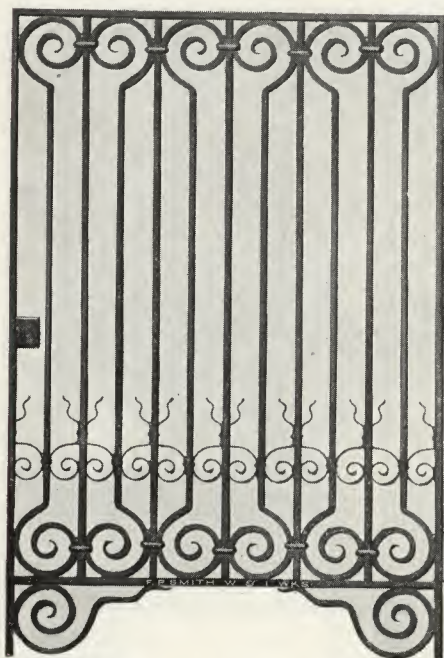
Size or Smaller	Electro-plated Steel	Solid Bronze
18 in. wide by 24 in. high....each,	\$70.00	\$85.00
20 in. wide by 27 in. high....each,	80.00	95.00
24 in. wide by 30 in. high....each,	95.00	110.00

IF MADE TO SWING AND LOCK ADD \$10.00 TO LIST PRICE.



**No. 65 WICKET**

Size or Smaller	Electro-plated Steel	Solid Bronze
18 in. wide by 24 in. high....each,	\$70.00	\$85.00
20 in. wide by 27 in. high....each,	80.00	95.00
24 in. wide by 30 in. high....each,	95.00	110.00

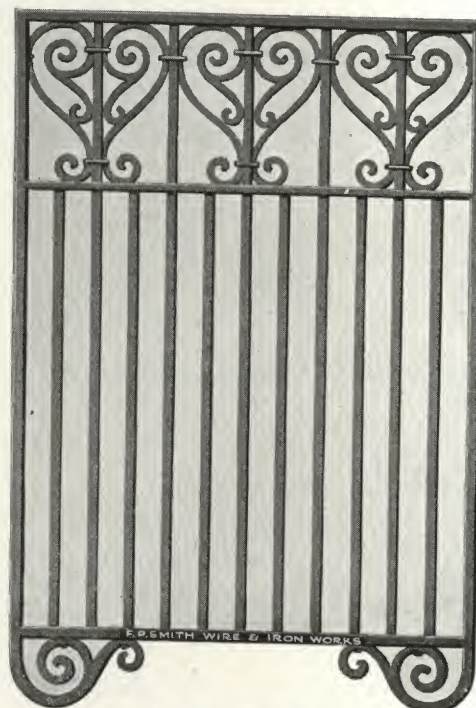


**No. 66 WICKET**

Size or Smaller	Electro-plated Steel	Solid Bronze
18 in. wide by 24 in. high....each,	\$145.00	\$190.00
20 in. wide by 27 in. high....each,	155.00	200.00
24 in. wide by 30 in. high....each,	170.00	215.00

IF MADE TO SWING AND LOCK ADD \$10.00 TO LIST PRICE.

SPECIAL DESIGNS MADE TO ORDER.



**No. 67 WICKET**

Size or Smaller	Electro-plated Steel	Solid Bronze
18 in. wide by 24 in. high....each,	\$115.00	\$160.00
20 in. wide by 27 in. high....each,	125.00	170.00
24 in. wide by 30 in. high....each,	140.00	185.00

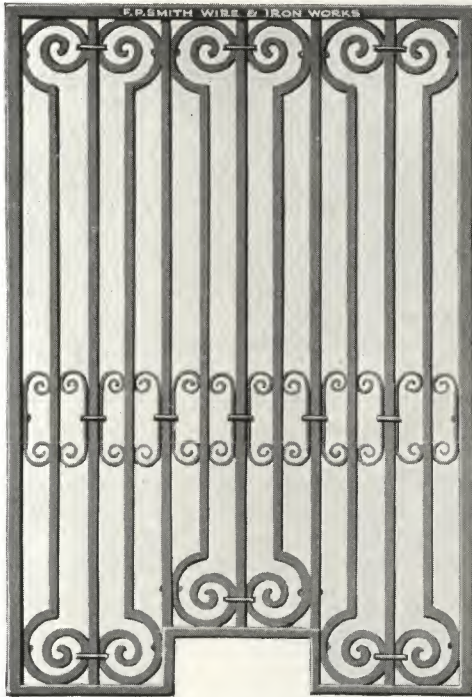




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Wickets (Continued)

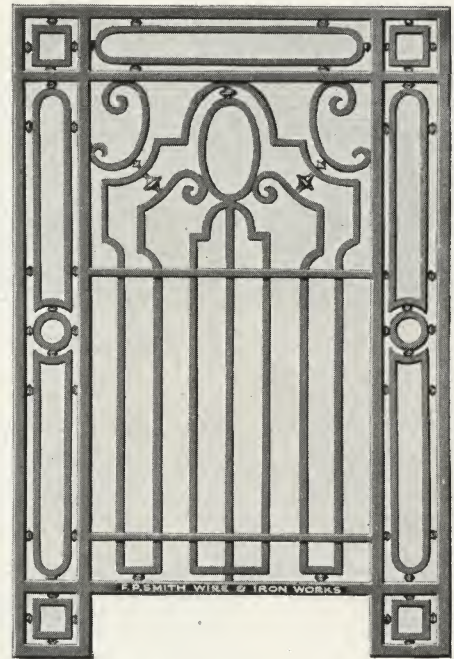


No. 68 WICKET

Size or Smaller	Electro-plated Steel	Solid Bronze
18 in. wide by 24 in. high....each,	\$145.00	\$190.00
20 in. wide by 27 in. high....each,	155.00	200.00
24 in. wide by 30 in. high....each,	170.00	215.00

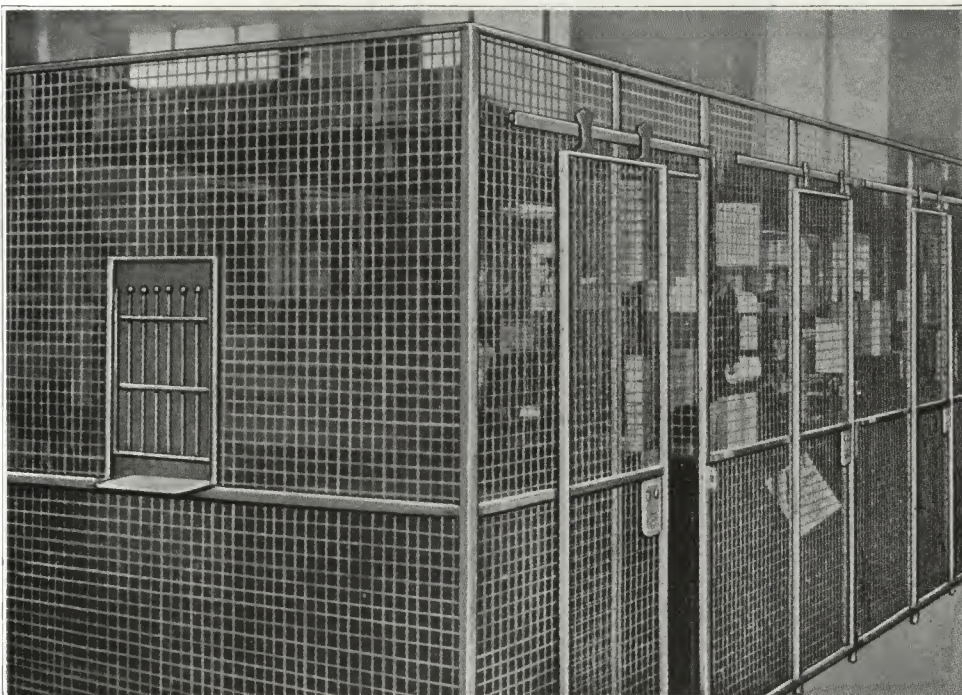
IF MADE TO SWING AND LOCK ADD \$10.00 TO LIST PRICE

All of our solid brass and bronze and electro-plated steel grilles and wickets are highly polished, and a coat of transparent lacquer is applied to preserve the finish.



No. 69 WICKET

Size or Smaller	Electro-plated Steel	Solid Bronze
18 in. wide by 24 in. high....each,	\$225.00	\$270.00
20 in. wide by 27 in. high....each,	240.00	285.00
24 in. wide by 30 in. high....each,	260.00	305.00



Bank Cages of 1½ inch square mesh, ⅜ inch pressed square steel wire, with 1 inch by ½ inch channel steel frame.

## F. P. SMITH

Solid Bronze or Brass  
**NAME PLATES**

for  
Bank Tellers

### DESK NAME PLATES

for  
Officers and Directors

### WINDOW NAME PLATES

for  
Merchants

Can be furnished with any desired lettering and in any finish.

Prices will be quoted on application.

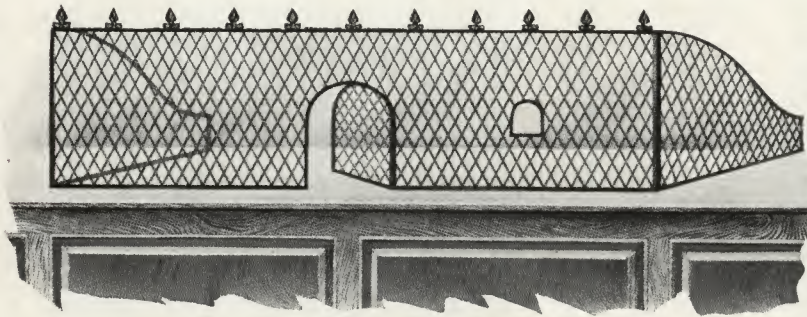




## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



### Counter Railings

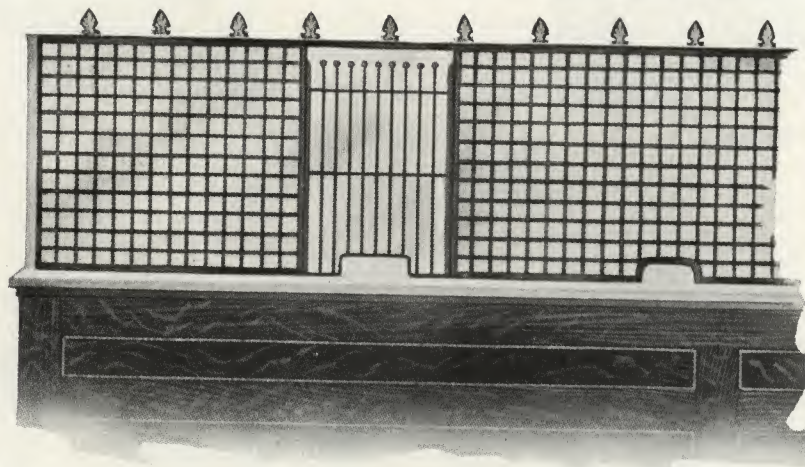


No. 6 Counter Railing

Our No. 6 Counter Railing is a good, serviceable Railing, usually made of  $1\frac{1}{4}$  inch diamond mesh, crimped wire, with frame of channel steel, the size of channel depending on length and height of Railing. Iron Pickets are securely fastened on top as shown. The steel frame stiffens the Railing and braces always accompany the work when necessary. Usually painted olive green. Other finishes to order.

#### PRICE LIST

18 inches high.....	per lineal foot, \$3.50	Cash Opening, any size .....	extra, \$10.00
24 inches high.....	per lineal foot, 3.75	Cash Opening with Door, any size.....	extra, 30.00
30 inches high.....	per lineal foot, 4.00	Return Ends, above lineal	
36 inches high.....	per lineal foot, 4.25	measurement .....	extra, 1.50
		O. G., above lineal measurement.....	extra, 5.00



No. 60 Counter Railing

Where a more handsome Railing is desired than our No. 6 Railing, we would recommend our No. 60 Flat Metal Railing. Usually made of  $1\frac{1}{4}$  inch square mesh,  $\frac{1}{4}$  inch flat wire, crimped and woven, with channel steel frame, the size of channel depending on length and height of Railing. The top is ornamented with pickets as shown. When higher than 24 inches we use  $\frac{5}{16}$  inch flat wire.

#### PRICE LIST

	Dead Black or Bronze	Steel-plated Antique Copper
18 inches high, per lineal foot.....	\$6.00	\$ 9.00
24 inches high, per lineal foot.....	6.50	9.75
30 inches high, per lineal foot.....	7.00	10.50
36 inches high, per lineal foot.....	7.50	11.25
Cash Opening, any size .....	extra, \$10.00	
Cash Opening with Door, any size.....	extra, 30.00	
Return Ends, above lineal measurement.....	extra, 1.50	
O. G., above lineal measurement.....	extra, 5.00	

For prices on Wickets refer to pages 25-27.

Counter Railings can be furnished of any style grille shown on page 21. Floor Railing to match can be made any height.

In ordering send a sketch showing a plan of the Railing, and be particular to give all the dimensions correctly, location of cash holes, sizes of the same, etc., to save delay in writing for this information.

Order all goods in this catalog by Number and Name.

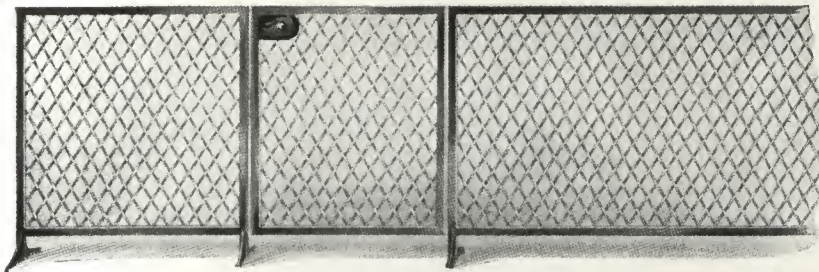




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Crimped Wire Floor Railing, *Diamond Mesh***



**No. 50 WIRE FLOOR RAILING**

The gate is generally equipped with a secret lock and can be provided with either plain hinges or spring hinges, the latter making gate self-closing; or self-closing hinges can be supplied, which allow gate to swing one way or both ways. Any finish desired will be applied.

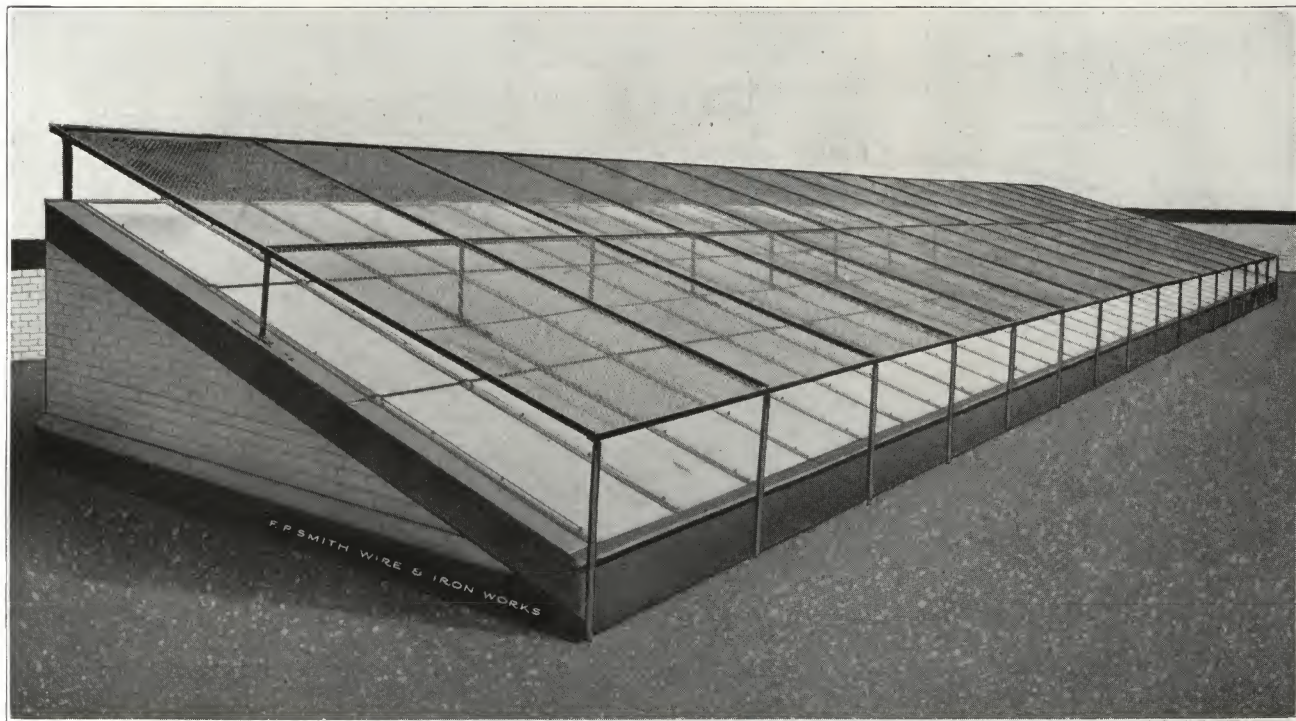
More elaborate Floor Railings can be furnished, using any style grille shown on page 21.

Prices quoted on application.

Diamond Mesh Crimped Wire Floor Railings are especially adaptable for office and store divisions, being durable, fire-proof and neat in appearance. Wire Railings allow for free circulation of air and do not obstruct the view.

Usually made 36 inches high, of 2 inch diamond mesh, No. 8 wire with frame of 1 inch by  $\frac{1}{2}$  inch channel steel and flat steel covering bar on top. Posts of either cast iron or wrought steel will be furnished and pickets will be placed on top, if desired.

## **Crimped Wire Skylight Guards, *Diamond Mesh***



**Illustration No. 6**

Our CRIMPED WIRE GUARDS afford the safest and most durable protection for skylights, preventing the costly breakage of glass, and the danger of injury by falling glass.

They can be furnished in any shape required, for protection of skylights as shown in the above illustration, or for skylights of the monitor or saw-tooth type. Guards can be provided with opening to accommodate ventilator, when needed. Our SKYLIGHT GUARDS are generally made of  $\frac{1}{4}$  inch diamond mesh, No. 11 wire, with either round steel or channel steel frame. Steel standards are usually furnished, to hold GUARDS about 6 inches above the glass. We can make these GUARDS of a smaller or larger mesh, in fact, of any size mesh, wire or frame that it is practicable to make, to suit individual needs, or to meet with the laws of different States and Cities.

Frame work of a combination of steel angles and tees can be provided, and the GUARDS attached to these supporting members with clips. By this means the GUARDS can be easily removed, when desired, to permit cleaning the glass.

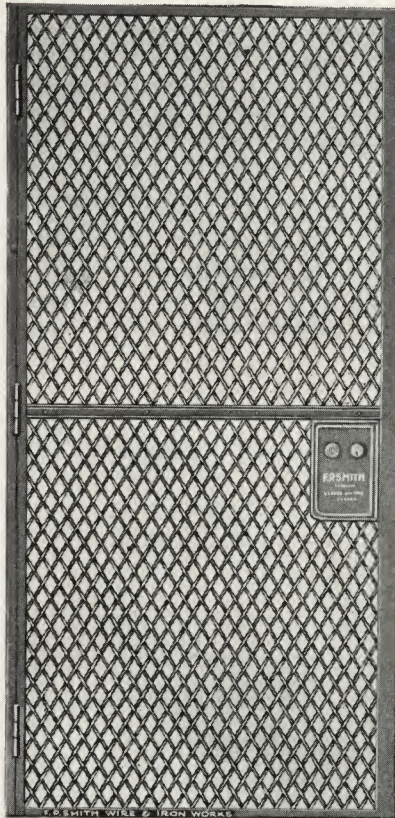
Our SKYLIGHT GUARDS are painted by a special dipping process, using the best mineral paint, insuring a uniform and durable coating, generally black, unless otherwise ordered. We can use galvanized wire for the mesh work if desired, simply painting the frame, at a slight additional cost; or we can hot-galvanize the guards after made, if preferred, thus covering the entire surface with a rust-proof coating and securely locking the wires together at all intersections.

**PRICES WILL BE QUOTED ON RECEIPT OF PARTICULARS.**





## Crimped Wire Doors



No. 10 Swinging Door

### No. 10 STANDARD SWINGING DOOR

Size, 3 feet wide x 6 feet, 6 inches high, made of  $1\frac{1}{2}$  inch diamond mesh, No. 10 intermediate crimp wire, with frame of 1 inch x  $\frac{1}{2}$  inch channel steel. Equipped complete with hinge and locking bar and our special lock (refer to page 16). Dip-painted olive green.

Price .....each, \$55.00

### No. 11 STANDARD SLIDING DOOR

Size, 5 feet wide x 6 feet, 6 inches high. Same specifications as the No. 10 Swinging Door. Equipped complete with track, hangers and guides and our special lock and keeper.

Price .....each, \$60.00

The above prices do not include transom panels. These will be furnished, if wanted, at an extra charge.

**OUR No. 10 AND No. 11 STANDARD DOORS ARE CARRIED IN STOCK FOR IMMEDIATE DELIVERY.**

Other specifications and sizes made to order.

### No. 20 FLAT WIRE DOOR

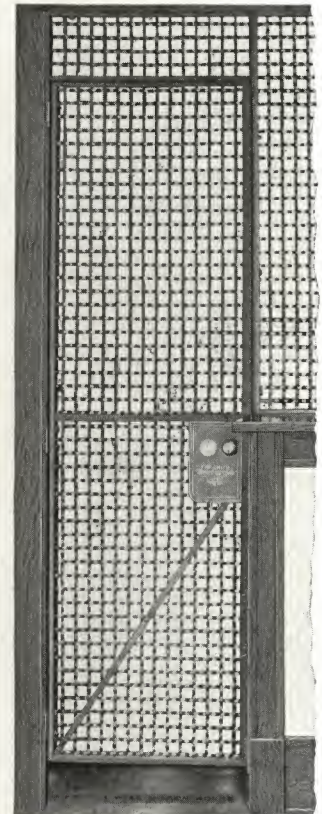
Usually made of  $1\frac{3}{8}$  inch mesh,  $\frac{3}{8}$  inch crimped flat steel wire, with frame of 1 inch x  $\frac{1}{2}$  inch channel steel.

Can be furnished either to swing or slide and in any size or finish desired.

Prices quoted on application.

Doors can be furnished, using any of the grilles shown on page 21.

When ordering send sketch showing which way door swings or slides, and from which side key is to operate. Doors can be furnished with hasp and staple for padlock at a reduction in price.



No. 20 Flat Wire Door



Illustration No. 14

Diamond mesh crimped Wire Doors, Tool Room Enclosures, Partitions for dividing stalls, Window Guards, etc. are fireproof and indestructible, making them exceptionally adaptable for public and private garages.

The view opposite shows one of our many installations of Wire Sliding Doors in a public garage. This door is built to suit a special condition. The overhead track is curved at the corner of building and the door arranged in sections, hinged together, to follow the curve of track and slide back at right angles to door opening.

Whenever the weather permits the solid doors are left open and entrance is shut off from intruders by the Wire Mesh Doors, which at the same time afford necessary ventilation and freedom from gasoline fumes.

Prices will be quoted on request.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Crimped Wire Guards, Diamond Mesh For Elevators**



Illustration No. 12

Our **Diamond mesh crimped wire guards** with frames of channel steel provide the safest and most substantial protection for the top of elevator cars, for enclosing elevator well-holes, guarding counter weights and afford a durable safety covering under the sheaves at the top of elevator hatchway, at a moderate price.

Our engineering department has made a careful study of the art of guarding elevators, and we have produced and installed Safety Guards for practically every condition conceivable.

We can make **guards** of any size mesh, wire or frame that it is practicable to make, provide supporting members of steel angles and tees, or furnish any construction required, to conform with the recognized standards of insurance companies and the laws of different states or cities.

Prices will be quoted on receipt of particulars.

## **Wire Picture Racks, Diamond Mesh**

This illustration shows the wide range of practical uses for our diamond mesh crimped wire panels.

The view is of a picture storage room in one of the country's leading art institutes, equipped with our **Wire Mesh Panels**, part of them set stationary and part provided with track, hangers and handles, so they can be easily slid out. In other installations we have made, all sections were arranged to slide. Our **Wire Mesh Panels** are rigid and strong, to safely hold the heaviest and most valuable pictures and paintings. This method provides for hanging many paintings not on exhibition and the material may readily be studied from the storage room; the storage space, supplementing the galleries, makes the whole collection of pictures available at all times. **Prices quoted on application.**



Illustration No. 11





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Wire Signs

Our WIRE SIGNS are made of heavy galvanized steel wire, crimped and woven in diamond meshes, clinched into a heavy steel frame; the whole being supported and braced by means of angles, T bars, guy-wires, etc., as required to suit the special conditions of each job.

The letters are made of heavy galvanized sheet steel and fastened to the wire work with heavy copper wire to prevent corrosion, and the whole is painted with best graphite paint, thus insuring a strongly constructed and lasting job.



Illustration No. 1



Illustration No. 2



Illustration No. 3



Illustration No. 4

A WIRE SIGN reminds the public that you are "on the map" and furthermore shows them the particular point of the map; people are more likely to remember YOUR PRODUCT, when they have noticed the PLACE where it is manufactured. We are frequently called to figure on work and are told by the customer that he passes our factory on the train daily and has noticed from our WIRE SIGN that we do the particular work for which he is in the market. How often have YOU been told by some customer that he did not know you manufactured a certain product?

You may be paying out considerable money to get your name before the public OCCASIONALLY, by advertising in the magazines, newspapers, etc. A one-page "ad" in most of these publications would cost you more for ONE issue than a complete wire sign (which "carries on" for you ALL THE TIME) and it would not be nearly as effective, being buried in amongst a mass of other "ads."

WIRE SIGNS are usually intended to be seen from a considerable distance (they can be read FARTHER than any other kind of sign) and for this purpose they are generally placed over the roof of the building, as shown by illustration No. 1.

When intended to be read from a short distance, they can be placed over the wall coping, as shown by illustration No. 2.

Sometimes, specially in the case of medium size signs, they are arranged to project out from the building over the sidewalk, as shown by illustration No. 3; this style is easily read at long distance by the approaching traffic.

Another arrangement is to attach them to the face of building, as shown by illustration No. 4.

As the effectiveness of a wire sign depends to a great extent on the arrangement and size of the lettering, we always have our Drafting Department prepare a large scale drawing, showing the sign complete and submit it to the customer for his examination and approval before proceeding with the order.

In most cases our customers want us to take care also of the ERECTION of these signs; for this purpose we have a force of experienced erectors covered by Liability Insurance, FULLY PROTECTING the owners and the public.

We have been manufacturing wire signs for NEARLY FIFTY YEARS and our suggestions as to size and arrangement of the wire sign most suitable for your purpose are yours for the asking.

THE LETTERING CAN BE EASILY CHANGED ANY TIME, IF DESIRED.

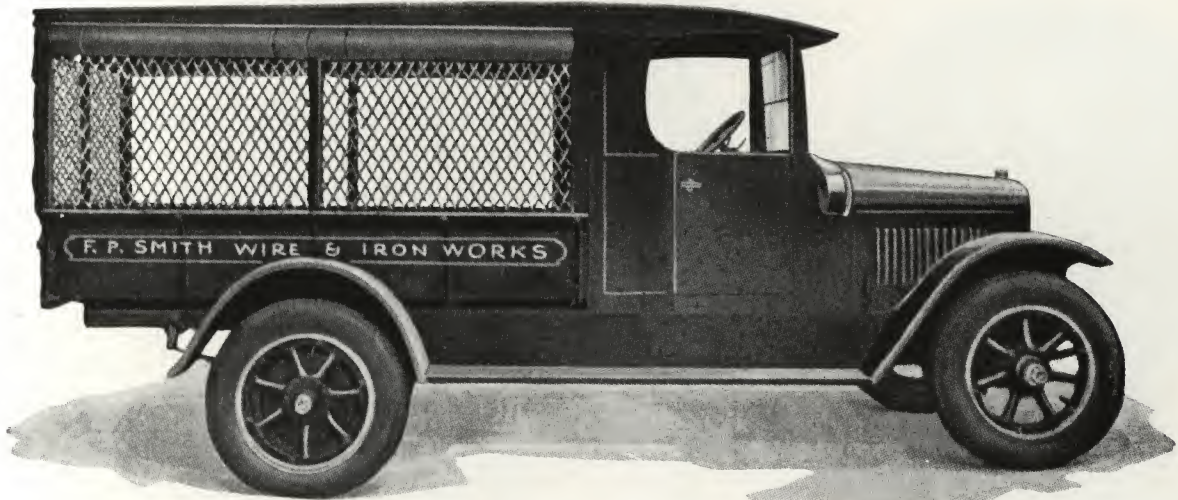




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Crimped Wire Guards, *Diamond Mesh* For Automobile Trucks**



**Illustration No. 5**

Our Diamond Mesh Crimped Wire Guards make the most substantial and practical enclosure for trucks. Usually made of  $1\frac{1}{2}$  inch diamond mesh, No. 10 wire, channel steel frame.

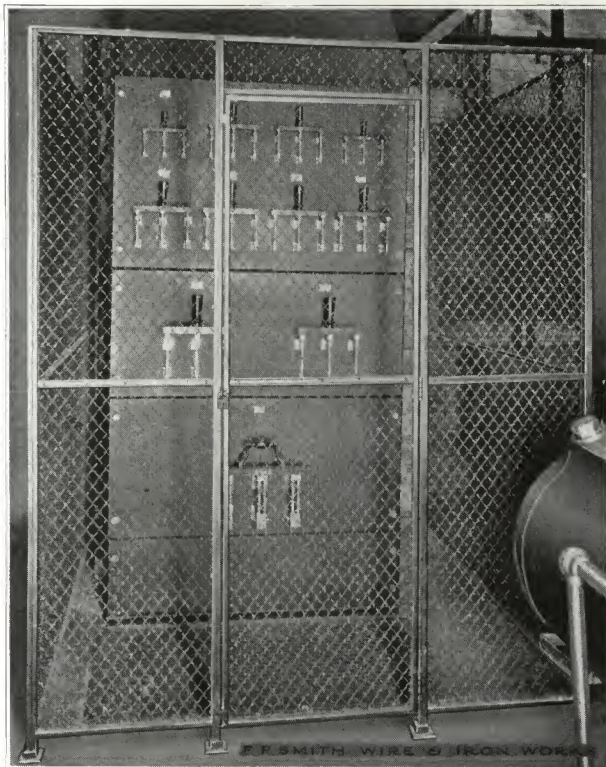
For prices refer to page 9.

Where guards are wanted for the rear of truck and arranged to swing with hinges, we provide single guards with hasp and staple for padlock, for which there is an extra charge of \$3.25 (list).

For double guards arranged to swing with hinges, we highly recommend our swivel locking bar, which holds the guards rigidly in place. For this locking device there is an extra charge of \$20.00 (list). Prices include butt hinges.

Where the channel frames of swinging guards are provided with flat steel covering bars, there will be an additional charge. For hinge and locking bars there will also be a slight extra charge.

**SPECIAL PRICES WILL BE QUOTED ON LARGE QUANTITIES.**



**Illustration No. 16**

## **Wire Switchboard Enclosure**

**Crimped Wire, Diamond Mesh**

Our Enclosures made of crimped wire, diamond mesh, framed with channel steel, provide the most efficient and durable protection against the danger of contact with powerful electric currents in switchboards. Usually made of  $1\frac{1}{2}$  inch diamond mesh, No. 10 crimped wire, with frame of 1 inch by  $\frac{1}{2}$  inch channel steel.

They can be furnished to suit every conceivable condition and in any other specification, if required, to comply with the recognized standards of insurance companies or the laws of different states or cities.

Prices will be quoted on receipt of particulars.





## Crimped Wire Machinery Guards, *Diamond Mesh*

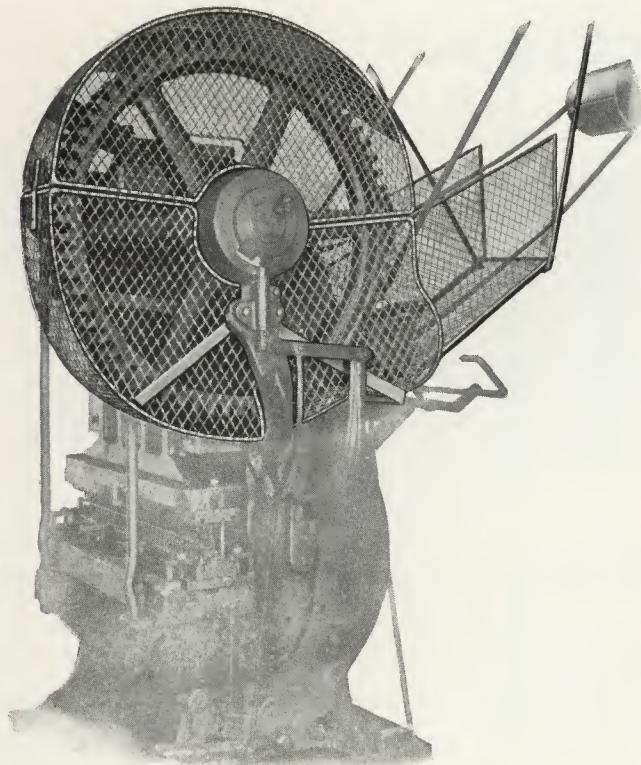


Illustration No. 10

This illustration shows one of our many installations affording protection against large gear wheel on a punch-press; also extension guard to protect against belt.

size guards and  $\frac{3}{4}$  inch by  $\frac{3}{8}$  inch channel for the smaller size guards. For round steel frames,  $\frac{3}{8}$  inch diameter steel is the standard size. Necessary braces will be furnished when required.

We can, however, make guards of any size mesh, wire or frame that it is practicable to make, to suit individual needs, or to meet with the recognized standards of insurance companies and the laws of different states.

One or more panels in each enclosure can be made removable, or arranged to swing, so as to give access to the machine when desired. Openings can be furnished in guards when required to permit access for oiling.

Our CRIMPED WIRE MACHINERY GUARDS, with frame work of channel steel or round steel, afford the most durable and efficient protection against accidents by fly-wheels, pulleys, belts, gears and all other exposed moving parts of machinery, at a moderate price.

The photographic illustrations shown on this and the following page are typical examples of only a few of the various designs we have produced.

For many years our engineering department has made a careful study of the art of guarding machinery, and we have produced and installed guards for practically every situation conceivable.

Our MACHINERY GUARDS are generally made of  $1\frac{1}{4}$  inch diamond mesh, No. 11 wire. Where channel steel frames are preferred, we use 1 inch by  $\frac{1}{2}$  inch channel for the larger

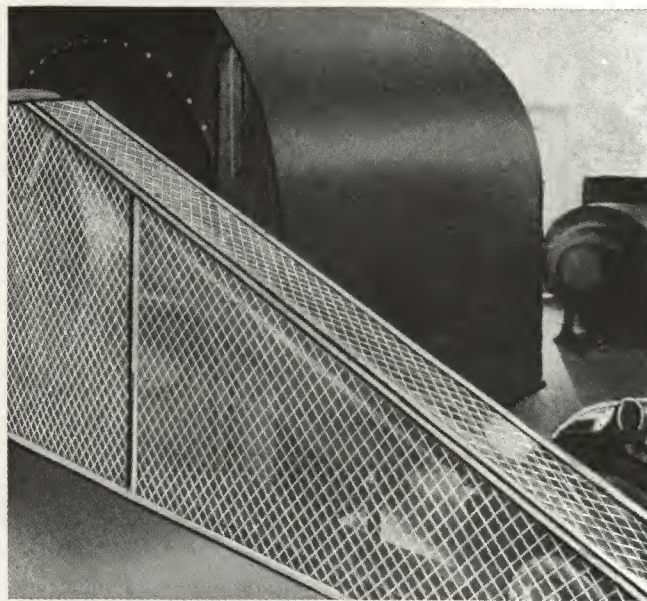


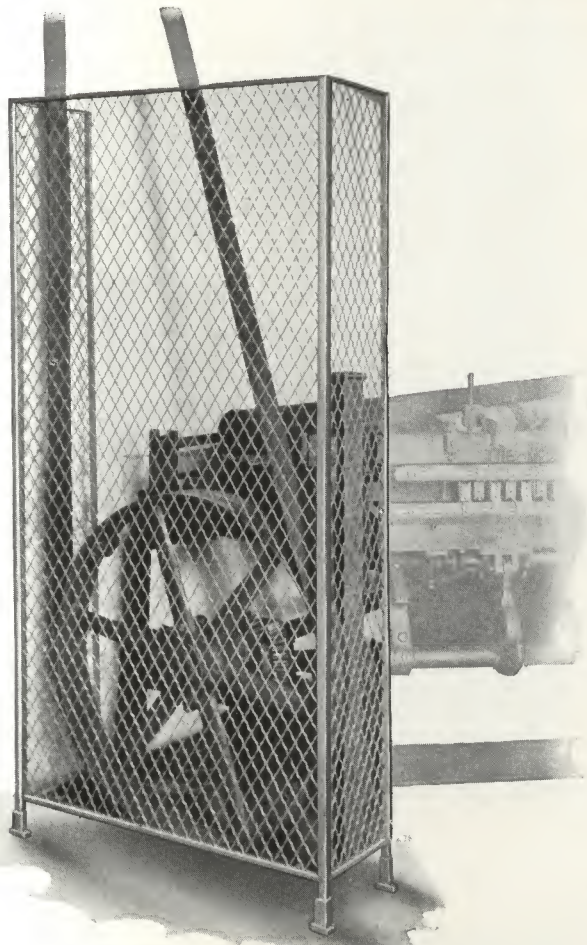
Illustration No. 7

This illustration shows one of our guards to protect against belt and pulleys on a motor fan.





## **Crimped Wire Machinery Guards, *Diamond Mesh*** **(Continued)**



**Illustration No. 8**

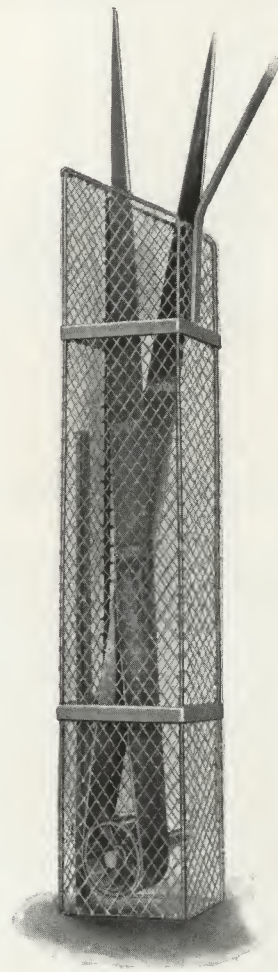
This illustration shows one of our guards installed to protect against belt and pulley on a wire weaving machine. This guard is provided with floor sockets into which the channel legs of guard set, which permits for easy removal of guard, when desired.

Our **DIAMOND MESH CRIMPED WIRE FABRIC** is far superior to any other fabric used in the construction of safety guards, for the simple reason that each wire running diagonally from one member of frame to another member of frame acts as a brace in itself. Added to this, the crimps in the wires securely lock all intersecting wires, producing additional rigidity.

Prices will be quoted on receipt of particulars.

We also make Plate Steel Protectors for gears, etc., where legal restrictions make necessary a solid covering.

Machinery Guards must be made strong for permanency, to last at least as long as the machinery which they guard. The fact should be kept in mind that the guard will be subjected to all the knocks that the protected part of the machine itself might otherwise receive.



**Illustration No. 9**

This illustration shows one of our guards to protect against belt and pulley on a drill press.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Spark Arresters

### For the Chimney and Smoke Stack

Fires caused by flying sparks from chimneys over incinerators and furnaces, from smoke stacks above cupolas, etc. are most efficiently prevented by the use of our durable Spark Arresters.

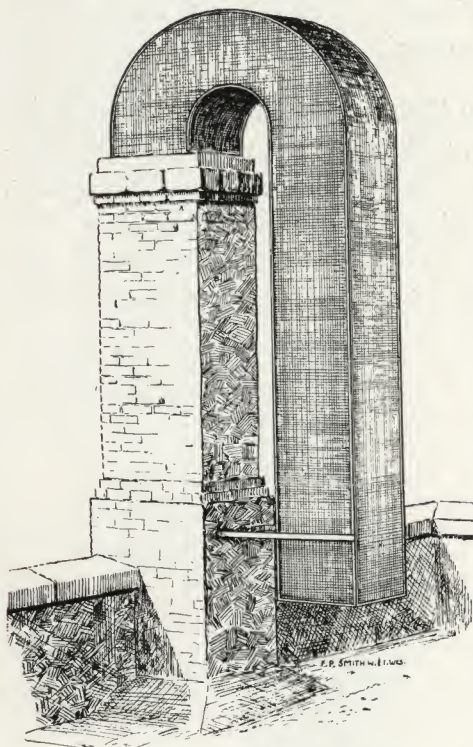


Illustration No. 20

Usually made of  $2\frac{1}{2} \times 2\frac{1}{2}$  mesh .109 wire heavy steel wire cloth with frame work of angle steel or round steel. Necessary supporting members are provided.

A type can be furnished to suit every condition. Any other size mesh and wire can be supplied to comply with the recognized standards of insurance companies or the ordinance of city or state.

Hot galvanized after made, if desired, producing a rust-proof coating and adding rigidity to the Spark Arrester.

Prices quoted on receipt of particulars.

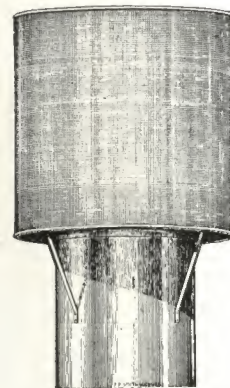


Illustration No. 21

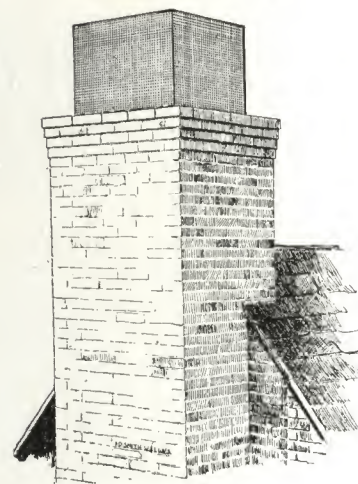
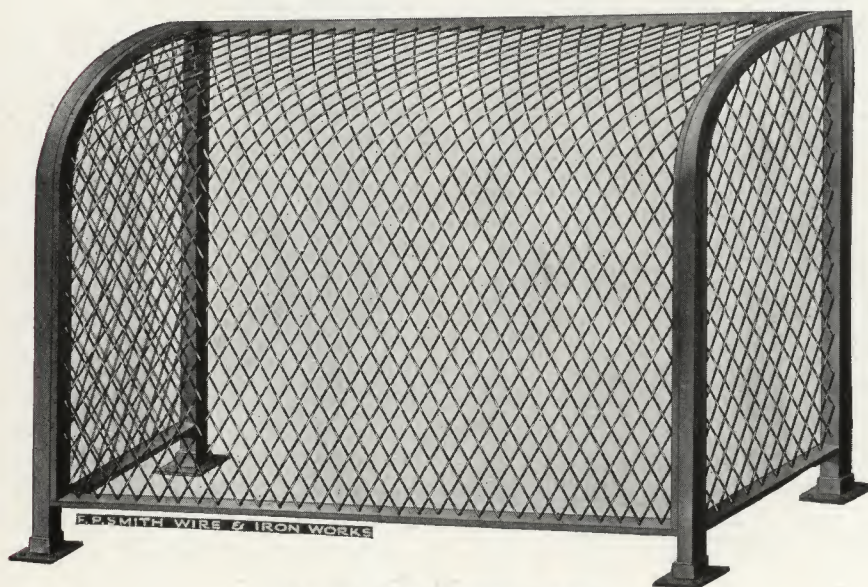


Illustration No. 22

## Crimped Wire Radiator Guards, Diamond Mesh



No. 14 Wire Radiator Guard

This type of Radiator Guard is especially suitable for asylums, hospitals and other institutions where a guard is required to give efficient and strenuous service. They afford protection against burns and prevent tampering with the radiators.

Crimped Wire Radiator Guards are practically indestructible and the open meshes permit the maximum amount of heat to pass through.

Generally made with channel steel frames, and we can furnish any size mesh and wire that it is practicable to make.

Prices will be quoted on application.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Heavy Wire Trellises and Arches



**No. 26 Wire Arch**

Our **WIRE TRELLISES** and **ARCHES** are attractive in appearance, provide a very satisfactory support for climbing growths and add an artistic effect to the home and garden.

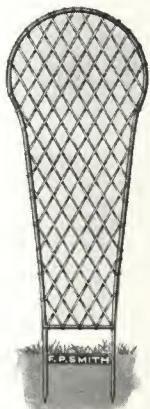
They are made of heavy intermediate crimp galvanized steel wire, uniformly woven in 3 inch diamond mesh and framed with heavy round steel rods. Ends of frame are left projecting for insertion into ground. Usually painted green.

Our **TRELLISES** and **ARCHES** should in no sense be compared to the lighter and flimsy machine-made goods on the market, which are quickly distorted or destroyed by the elements.

### NO. 26 WIRE ARCH

Span	Width	Height above ground	Price, each
3 ft.	18 in.	7 ft.	\$19.00
3½ ft.	18 in.	7 ft.	21.00
4 ft.	21 in.	7½ ft.	26.00

Any other size made to order.

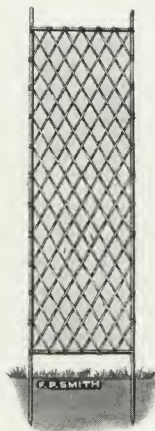


**No. 28 Wire Trellis**

Price, Each

3 ft. high	\$ 7.50
4 ft. high	9.75
5 ft. high	12.00
6 ft. high	15.00

The heights given are above ground. Any other size made to order.

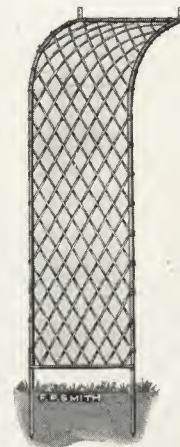


**No. 29 Wire Trellis**

Price, Per Lineal Foot

18 in. wide	\$1.50
24 in. wide	1.75
30 in. wide	2.00

When ordering No. 29 or No. 30 Trellis give distance from ground to point on porch or side of building where Trellis is to be fastened. Any other width made to order.



**No. 30 Wire Trellis**

Price, Per Lineal Foot

18 in. wide	\$1.75
24 in. wide	2.00
30 in. wide	2.25





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



F.P. SMITH WIRE & IRON WORKS

SMITH TENNIS-COURT ENCLOSURE—A general view of one of our many installations.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Smith Tennis-Court Enclosure (Continued)

Standard Height, 10 feet above ground



Full size detail  
of wire and mesh

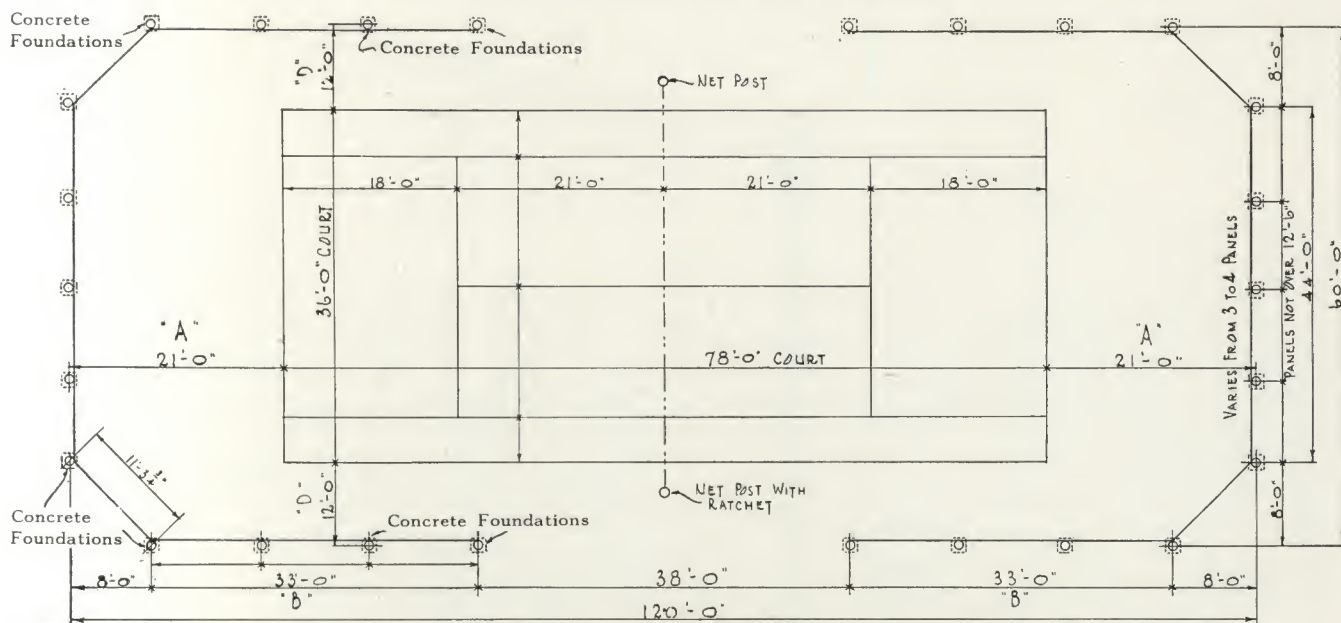
Smith Tennis-Court Enclosures are essential to fully enjoy the game. They are durably constructed for permanency and very attractive in appearance.

The fabric is of No. 11 gauge heavily galvanized steel wire, intermediately crimped, and woven in  $1\frac{1}{2}$  inch square mesh, producing a fabric that is lasting and of great rigidity. The edges of fabric are knuckled to prevent the wires from getting loose. The square mesh feature permits unobstructed vision, much to the satisfaction of the spectator. This important feature will not be found in fabrics of diagonal and hexagonal shape meshes.

All frame work is of heavy weight tubular steel. End posts,  $2\frac{3}{8}$  inch outside diameter; intermediate posts, including posts next to end posts,  $1\frac{7}{8}$  inch outside diameter; horizontal top rails and braces,  $1\frac{3}{8}$  inch outside diameter. All posts should be set into concrete.

The frame work is coated with the best green paint prior to shipping. After the enclosure is installed, we recommend painting the entire structure, including the wire fabric, dark green. This greatly adds to both the life and beauty of the structure and the color prevents glare in brilliant sunlight.

Our Tennis-Court Enclosures are shipped complete with necessary clamps, bars, bolts and tie wire, ready for installing.

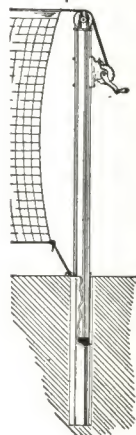


This diagram is marked with measurements of the enclosure required for a Regulation Tennis Tournament Court, according to the rules of the U. S. Tennis Association. Enclosures for most private courts are made smaller. Measurements "A" (21 feet), back of the serving line, sometimes are made as short as 15 feet; measurements "D" (12 feet), from edge of court to enclosure, are frequently made as narrow as 6 feet; measurements "B" are a matter of expediency to keep the ball in, and are not determined by any rules; frequently there are only two panels, or about 22 feet in length. The layout of the Tennis Court itself, however, is not variable.

We have a large force of experienced and skilled mechanics, who have specialized for many years in installing work of this kind. If desired, we will take complete charge of installing the Enclosure and assume full responsibility for the finished job.

We can furnish Enclosures of cheaper material, using hexagonal mesh netting, chain link fabric, or lighter frame work, but for the most efficient and substantially constructed Enclosure, one that is practically indestructible, meaning economy in the long run, we strongly recommend our standard specifications of SQUARE MESH and frame work, as described above.

Prices will be quoted on request.

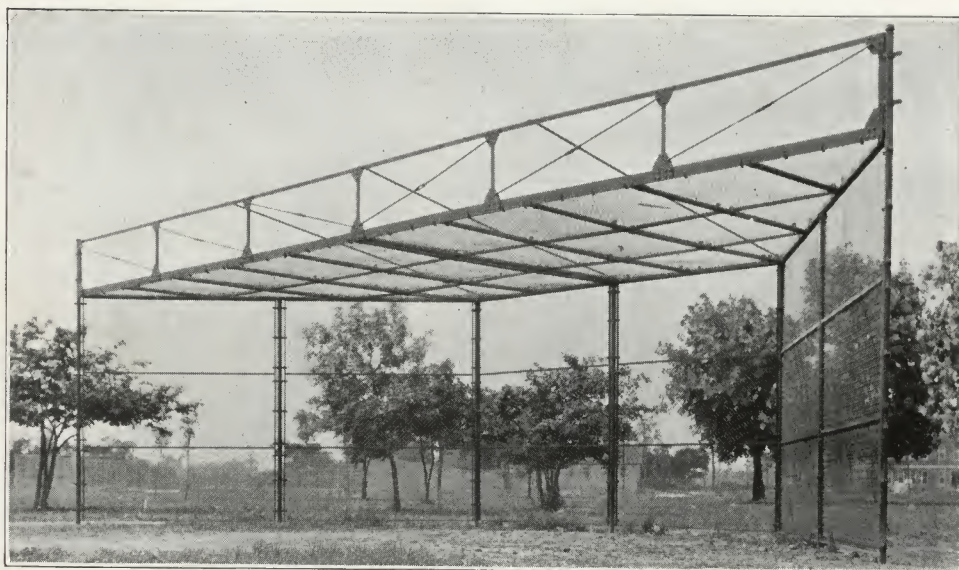


Smith Tennis-Court  
Net Posts, heavy galvanized  
tubular steel  
with ratchet on one  
post.





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



SMITH STANDARD BASEBALL BACKSTOP

### SMITH STANDARD BASEBALL BACKSTOP

with top to prevent foul balls from flying out of bounds. Width of front, 42'-1 $\frac{3}{4}$ "; width of back, 18'-0"; length of sides, 18'-0"; depth front to back, 12'-6"; height to roof, 10'-0". Made of diamond mesh, heavy galvanized crimped steel wire, channel steel frame and galvanized tubular steel posts. The truss connects sides and supports the roof.

Our Baseball Backstops are built to withstand rough usage and an important feature in their construction is the removable wire mesh panels, which can be easily repaired or replaced.



ILLUSTRATION No. 18

**WIRE FENCE AND TENNIS-COURT ENCLOSURE**, made of diamond mesh, heavy galvanized crimped wire, channel steel frame and channel steel capping bar and tubular steel posts. Diamond Mesh Crimped Wire Fabric is far superior to any other fabric used in a fence, for the simple reason that each wire running diagonally from one member of frame to another member of frame acts as a brace in itself. Added to this, the crimps in the wires securely lock all intersecting wires, producing additional rigidity. Prices will be quoted on application.





F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## No. 80 Standard Crimped Wire Fence

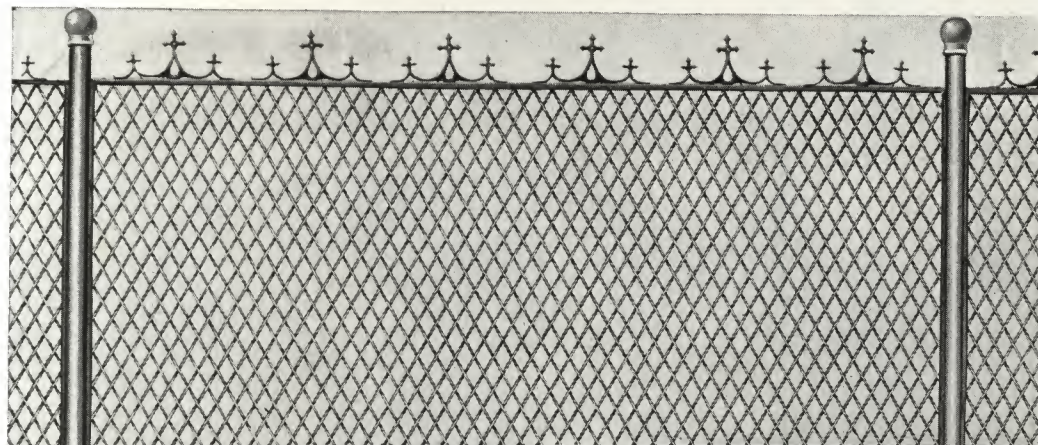
This **Wire Fence** is attractive in appearance and unquestionably the most substantial wire fence made. The wire is drawn from the best steel rods obtainable, of No. 8 gauge, intermediately crimped and woven in 2 inch diamond mesh, with frame of 1 inch by  $\frac{1}{2}$  inch open hearth channel steel. The top channel of frame is covered with an open hearth flat steel bar, preventing rust and adding to the strength of fence. The pickets are of malleable iron, securely attached to the frame.

Posts are of 2 inch diameter iron tubing, and provided with ornamental grey iron tops. The corner, end, gate and line posts are all alike. We recommend setting posts into concrete.

In framed diamond mesh panels every **diagonally woven wire acts as a brace** in itself, and added to this, the crimps in the wires lock them at intersections, producing a panel of exceptional rigidity. Wire Fences of this construction, unlike other wire fences, require no extra heavy posts for the corners, ends nor gates and no braces are necessary for these posts. Occasionally on high fences, a simple brace is provided for the post

against which the gate slams.

The entire fence is painted by a special dipping process, using the best mineral paint, insuring a uniform and durable coating, generally graphite, unless otherwise ordered.



The heights given are from underside of bottom frame to top of pickets.

### PRICE LIST

42 inches high, with posts, per lineal foot.....	\$3.00
48 inches high, with posts, per lineal foot.....	3.25
60 inches high, with posts, per lineal foot.....	3.75

Other heights at proportionate prices.

On account of the extra labor and material, Gates are charged extra—Single Gates, \$28.00; Double Gates, \$56.00 and measured in the Fence.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



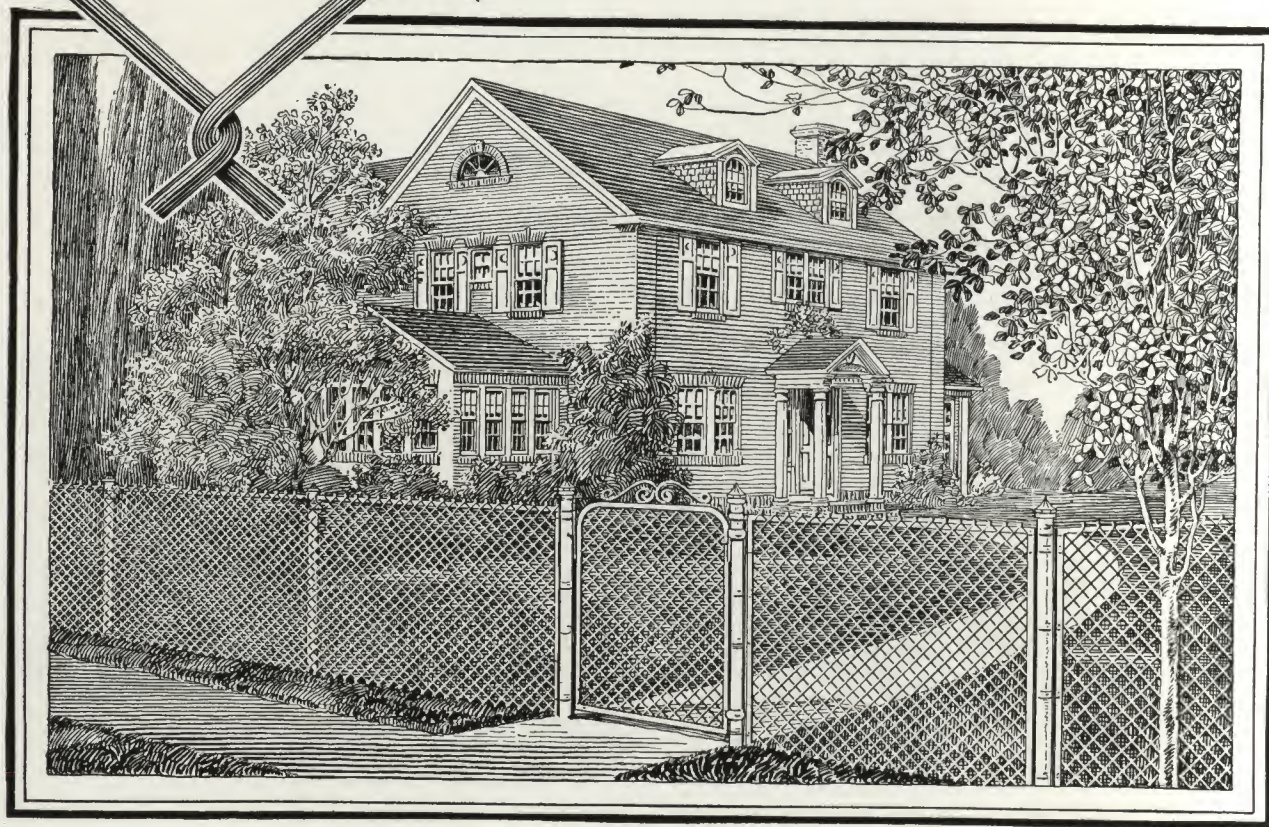
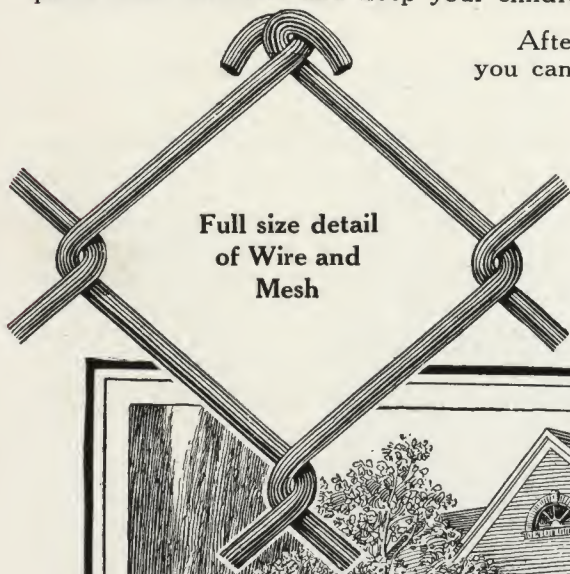
## Protecto Chain Link Fence

Our Protecto Chain Link Fence illustrated below is made in one height, 45 inches, with 1½ inch mesh, No. 12 gauge wire, and is particularly recommended for private residences.

Our Chain Link Fence will dress your property properly. At the same time it will protect your place from intruders and keep your children from straying off the grounds into danger.

After you have once erected one of these neat, handsome fences, you can dismiss the problem of upkeep from your mind. Years will pass before they need the slightest attention or repairs.

Both fabric and frames are made of copper-bearing steel that is a natural rust resistant. After weaving they are dipped into molten zinc to give them an additional, heavy protective coating. Time has proven this to be the most satisfactory method of galvanizing. Since snow, ice, rain and fire cannot harm these fences, their durability is assured.



### PRICE LIST

Complete Fence, including line posts, line rail, necessary sleeves, fabric bands and rail ties, per lineal foot ..... **\$0.70**  
End and Gate Posts, each ..... **2.65**  
Corner Posts, each ..... **3.20**  
Fabric, alone, per lineal foot ..... **.30**

### Gates

Single Walk Gates—3 ft. opening ..... **\$ 6.60**  
Single Walk Gates—3½ ft. opening ..... **6.80**  
Double Drive Gates—8 ft. opening ..... **14.50**  
Double Drive Gates—10 ft. opening ..... **16.50**  
Double Drive Gates—12 ft. opening ..... **18.50**

Prices on gates include fittings for pipe posts. Gates are made to correspond in height with fence.

Line Rail—1⅜ in. diameter. Line Posts—2 in. diameter, 6 ft. long, spaced about 10 ft. apart. End, Gate and Corner Posts—2 in. diameter, 7 ft. long.

**REFER TO OPPOSITE PAGE FOR IRON GATES**





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## No. 50 Iron Gate



$\frac{1}{2}$  inch square pickets and extra heavy frame bars

Complete with latch and hinges

An attractive and substantial gate especially designed for use with our wire fences.

One standard size, 3'6" opening x 46" high — for use with 45" to 48" high wire fabrics.

Price, each . . . . . \$25.00

Immediate delivery from stock.

Special sizes and drive gates, either single or double, made to order.



No. 50 Iron Gate with Protecto Chain Link Fence

## No. 33 Complete Fence



No. 33 COMPLETE FENCE WITH No. 19 "PERFECT" FABRIC

This is a rigid and durable medium priced fence. Furnished with No. 15, No. 17 or No. 19 "Perfect" fabric (see page 45).  
LINE POSTS—2" diameter tubular steel, spaced approximately 10 feet apart, to set into concrete about 24" deep. Special bands provided for fastening fabric.

END, GATE AND CORNER POSTS—2" diameter tubular steel, to set into concrete about 30" deep. Diagonal braces  $1\frac{3}{8}$ " diameter tubular steel and all necessary fittings for attaching fabric.

All posts, braces and fittings heavily hot dip galvanized.

### LIST PRICES

Fence with line posts, fabric and fittings, per lineal foot:			
Complete height of fence, inches . . .	36	42	48
No. 15 fabric . . . . .	\$0.30	\$0.33	\$0.36
No. 17 fabric . . . . .	.35	.39	.43
No. 19 fabric . . . . .	.35	.39	.43

Terminal posts with braces and fittings, each:			
Height of fence, inches . . . . .	36	42	48
End 2" diameter . . . . .	\$4.60	\$5.00	\$5.40
Gate 2" diameter . . . . .	4.60	5.00	5.40
Cor. 2" diameter . . . . .	7.00	7.60	8.30

For prices on gates to match, refer to page 45.

When ordering mention which style fabric is wanted. Otherwise the No. 19 fabric as illustrated will be shipped.

### DISCOUNT TO THE TRADE

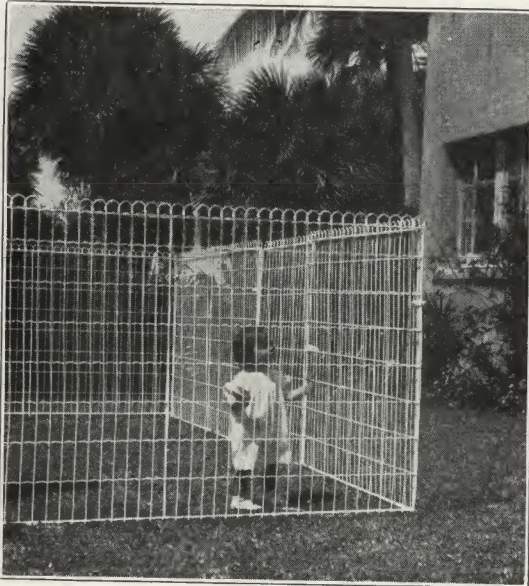




F.P. SMITH WIRE AND IRON WORKS, CHICAGO

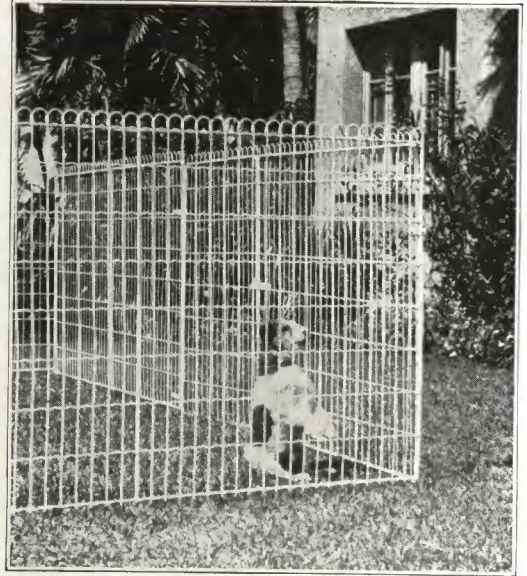


## Smith Portable Wire Fence



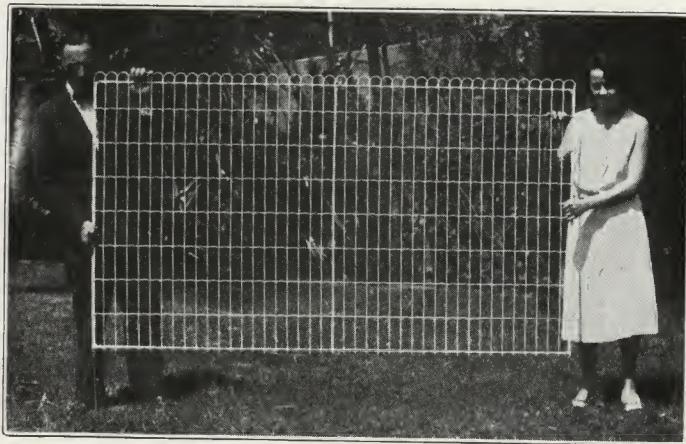
The safety and protection of children, the security of pets and small animals — these inevitable needs are admirably met by our Portable Wire Fence Sections.

This innovation in fence work has been especially devised for the suburban householder. It is unusually durable, trim and neat in appearance, and surprisingly inexpensive. Installation is a convenient and easy task. There are no post holes to dig nor wires to stretch.



The legs are merely pushed into the ground and the sections clamped together.

Our Portable Wire Fence Sections are removable at will for cleaning, painting and storing. Yard rotation is thus a simple matter, and the enclosure can be enlarged at any time by the addition of more sections. Standard size sections are carried in stock for immediate delivery.



### Specifications

*Sections* 7 feet long, 4 feet high, except one section adjoining gate which is 4 feet, 6 inches long.

*Gates* 2 feet, 6 inches wide, 4 feet high.

*Wire* No. 9, heavily galvanized,  $1\frac{7}{8}$  inch close mesh.

*Clamps* and bolts are provided for fastening sections together.

*Color* Dip-painted in an attractive shade of green.

All wires are electrically welded at every contact point and securely attached to the heavy round steel frame.

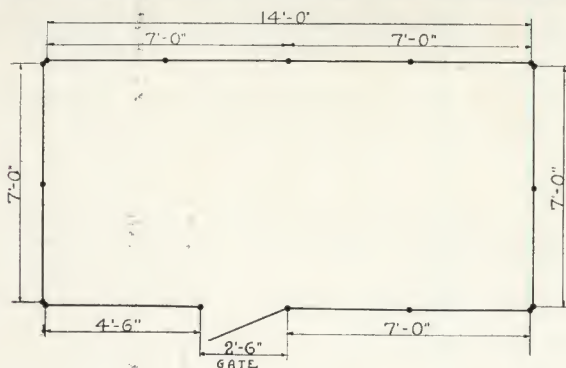
### List Prices

No. 1 Section 7'x4' high, each.....\$6.15

No. 2 Section 4'6"x4' high, each..... 4.75

No. 3 Gate 2'6"x4' high, each..... 4.50

Suggested Set—5 large sections, 1 small section and 1 gate (diagram at left), total list .....\$40.00



DISCOUNT TO THE TRADE





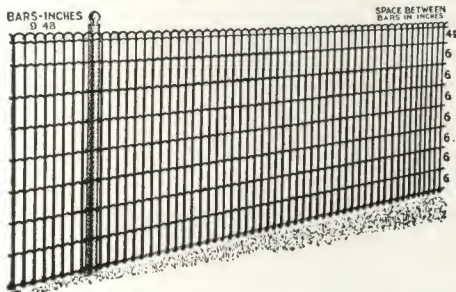
## "Perfect" Lawn Fencing

Electrically Welded

"Perfect" Lawn Fencing is a fabric made of special-formula Open Hearth Wire, thoroughly and heavily galvanized with pure zinc and electrically welded with absolute precision by accurate machinery into a one-piece fence.

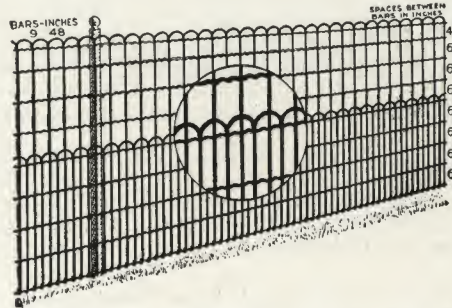
"Perfect" Lawn Fencing has just enough ornamentation to invest this exclusive electrically welded fabric with that simple distinctive beauty so pleasing to all.

The different heights and sizes of mesh in which "Perfect" Lawn Fencing is made, render it adaptable to every possible use around any home, garden, estate, park, cemetery, athletic field, etc. It is erected quickly and easily on steel or wooden posts.



No. 15 "Perfect" Lawn Fencing, made of all No. 9 wire. Picket wires spaced  $2\frac{7}{8}$  inches apart. Horizontal wires or bars 6 inches apart, except two upper wires, which are  $4\frac{1}{2}$  inches apart.

No. 17 "Perfect" Lawn Fencing, same as No. 15, except picket wires spaced  $1\frac{7}{8}$  inches apart.



No. 19 "Perfect" Lawn Fencing, Double Scroll, made of all No. 9 wire. Upper pickets spaced  $2\frac{7}{8}$  inches apart, lower pickets  $1\frac{3}{8}$  inches apart. Horizontal wires or bars 6 inches apart, except two upper wires, which are  $4\frac{1}{2}$  inches apart.

No. 19 Fencing is made in three heights only, as listed below.

For a non-climbable fence, the No. 17— $1\frac{7}{8}$ -inch close mesh is recommended.

### List Prices "PERFECT" FENCING, Per Lineal Foot

HEIGHT OF FENCING NUMBER OF BARS	24 in.	30 in.	36 in.	42 in.	48 in.
No. 15, $2\frac{7}{8}$ in. mesh	5	6	7	8	9
No. 17, $1\frac{7}{8}$ in. mesh	12c	14c	16c	18c	20c
No. 19, $2\frac{7}{8}$ in. and $1\frac{3}{8}$ in. mesh	18c	20c	22c	24c	28c
			22c	24c	28c

Above prices do not include any rail, posts or gates

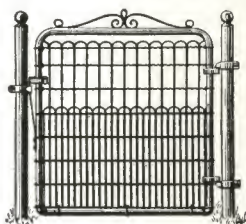
Put Up in Rolls of 150 Lineal Feet—Cut Rolls of Any Length Furnished

## "Perfect" Gates

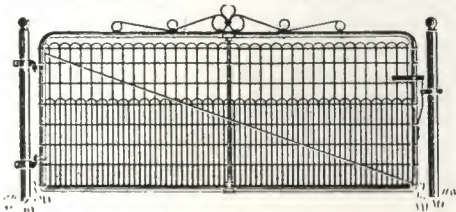
Frames of "Perfect" Gates are made of genuine new seamless steel tubes, combining rigid construction, neatness, ease of hanging, ease of operation and durability. Bottom corners are held by heavy castings telescoped deep into the tubing. The heavy zinc coating protects all parts of the gate.

All "Perfect" Gates have ornamental tops and are covered with No. 19 "Perfect" Fencing, Double Scroll.

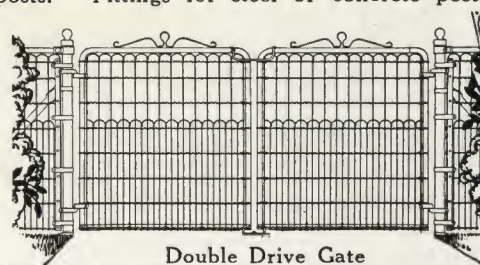
Prices include latch and hinges for wooden posts. Fittings for steel or concrete posts can be furnished at extra cost.



Walk Gate



Single Drive Gate



Double Drive Gate

### PRICE LIST

"PERFECT" WALK GATES				"PERFECT" SINGLE DRIVE GATES				"PERFECT" DOUBLE DRIVE GATES			
Width of Opening	Height	Approximate Weight	List Each	Width of Opening	Height	Approximate Weight	List Each	Width of Opening	Height	Approximate Weight	List Each
3 ft.	36 in.	21 lb.	\$5.00	10 ft.	36 in.	76 lb.	\$14.00	10 ft.	36 in.	95 lb.	\$13.60
3 "	42 "	22 "	5.20	10 "	42 "	81 "	14.20	10 "	42 "	100 "	13.80
3 "	48 "	25 "	5.40	10 "	48 "	91 "	14.40	10 "	48 "	106 "	14.00
3 1/2 "	36 "	26 "	5.20	12 "	36 "	81 "	16.00	12 "	36 "	100 "	15.60
3 1/2 "	42 "	27 "	5.40	12 "	42 "	90 "	16.20	12 "	42 "	109 "	15.80
3 1/2 "	48 "	29 "	5.60	12 "	48 "	100 "	16.40	12 "	48 "	117 "	16.00
4 "	36 "	28 "	5.40	14 "	36 "	95 "	18.00	14 "	36 "	113 "	17.60
4 "	42 "	29 "	5.60	14 "	42 "	100 "	18.20	14 "	42 "	118 "	17.80
4 "	48 "	30 "	5.80	14 "	48 "	108 "	18.40	14 "	48 "	125 "	18.00



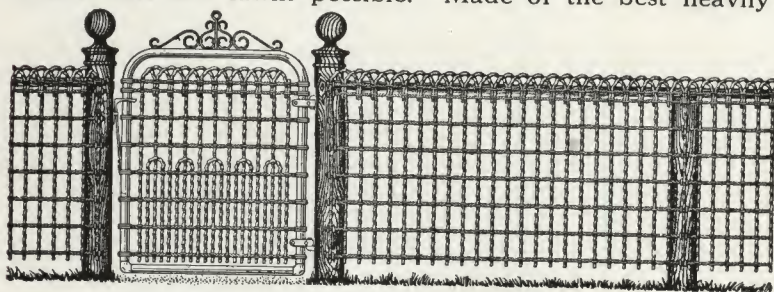


# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Ornamental Wire Fencing

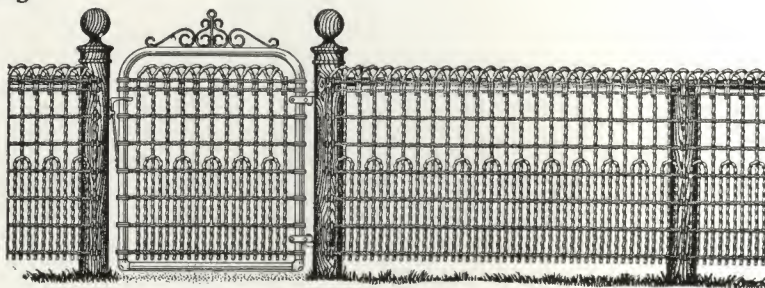
Extensively used for the protection and adornment of lawns, parks, schools, cemeteries, factories and public and private enclosures. Our fencing is sanitary, letting in fresh air and sunshine, making gardens, flower-beds and lawns possible. Made of the best heavily galvanized steel wire.



**No. 11 Ornamental Wire Fencing**

We also make No. 11 Ornamental Wire Fencing with the pickets spaced  $1\frac{7}{8}$  inches and  $1\frac{3}{8}$  inches apart from top to bottom.

Our No. 12 Ornamental Wire Fencing is made with pickets of No. 9 heavily galvanized steel wire, spaced  $2\frac{7}{8}$  inches apart at top,  $1\frac{3}{8}$  inches apart at bottom. Cables are of heavily galvanized wire, spaced 6 inches apart, except the two top cables, which are spaced  $2\frac{3}{8}$  inches apart.



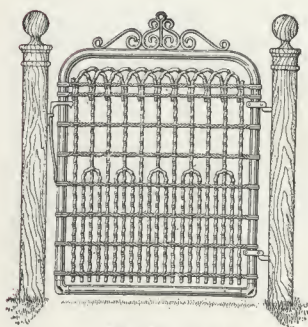
**No. 12 Ornamental Wire Fencing**

### List Prices Ornamental Fencing Per Lineal Foot

Height of Fencing.....	30 in.	36 in.	42 in.	48 in.	54 in.	60 in.	72 in.
Number of Cables.....	6	7	8	9	10	11	13
No. 11, $2\frac{7}{8}$ -inch mesh.....	14c	16c	18c	20c	24c	28c	34c
No. 11, $1\frac{7}{8}$ -inch mesh.....	20c	22c	24c	28c			
No. 11, $1\frac{3}{8}$ -inch mesh.....	23c	27c	31c	35c	39c	44c	54c
No. 12, $2\frac{7}{8}$ -in. and $1\frac{3}{8}$ -in. mesh.....	20c	22c	24c	28c	32c	36c	44c

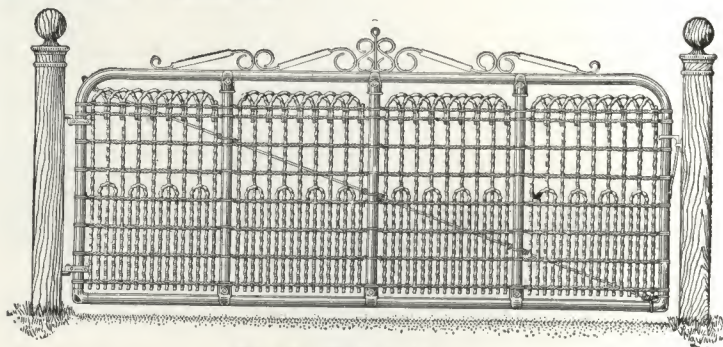
Put up in 150-foot rolls. Cut rolls of any length furnished.  
ABOVE PRICES DO NOT INCLUDE ANY RAIL, POSTS OR GATES.

## Ornamental Gates



**Walk Gate**

Width of Opening	Height 36 in.	Height 42 in.	Height 48 in.
3 Ft. ....	\$5.00	\$5.20	\$5.40
$3\frac{1}{2}$ Ft. ....	5.20	5.40	5.60
4 Ft. ....	5.40	5.60	5.80



**Single Drive Gate**

### PRICE LIST, EACH

Width of Opening	Height 36 in.	Height 42 in.	Height 48 in.
8 Ft. ....	\$12.00	\$12.20	\$12.40
10 Ft. ....	14.00	14.20	14.40
12 Ft. ....	16.00	16.20	16.40
14 Ft. ....	18.00	18.20	18.40
16 Ft. ....	20.00	20.20	20.40

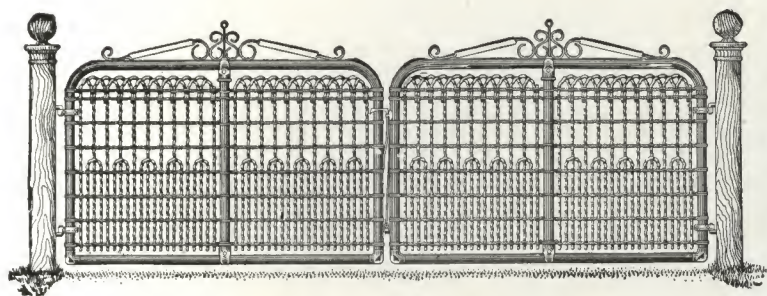
Our Ornamental Gates are made with high-grade heavy, galvanized steel tube frames. The galvanized gates remain neat many years after painted gates are rusty and look bad.

Prices include latch and hinges for wooden posts. Fittings for steel or concrete posts can be furnished at slight additional cost.





## Ornamental Gates (Continued)



Double Drive Gate

### PRICE LIST, EACH

Width of Opening	Height 36 in.	Height 42 in.	Height 48 in.
8 Ft. ....	\$11.60	\$11.80	\$12.00
10 Ft. ....	13.60	13.80	14.00
12 Ft. ....	15.60	15.80	16.00
14 Ft. ....	17.60	17.80	18.00
16 Ft. ....	21.60	21.80	22.00
18 Ft. ....	25.60	25.80	26.00

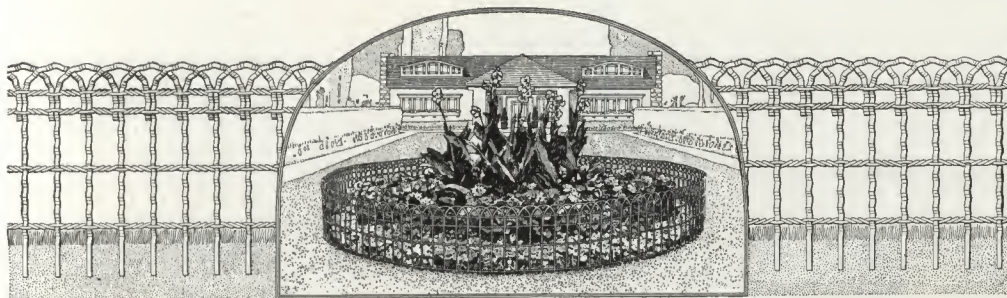
All Ornamental Gates have ornamental tops, and are covered with No. 12 Ornamental Fencing.

Frames are made of high-grade heavy galvanized steel tubing. Size of tubing depends on size of gate. The larger sizes are well reinforced with braces, to give extra strength and prevent any possible sagging.

Double drive gates are furnished with fittings so that one half of the gate may be held firmly in place and the other half used as a walk gate when full opening is not required.

Prices include latch and hinges for wooden posts. Fittings for steel or concrete posts can be furnished at slight additional cost.

Special sizes can be made to order, at extra cost.



## No. 6 Flower Bed Guard and Lawn Border

A neat, artistic, and inexpensive fabric for the protection of flower beds. Also much used for lawn and curbway border. Can be readily taken up and used from year to year, cut off to length required, and the ends hooked together when set. No posts are required to hold it in place, as the picket ends are left projecting for insertion into the ground. Uprights are of No. 9 and cables of No. 13 heavily galvanized wire.

Made in three heights:

Standard rolls contain 150 lineal feet. Cut rolls of any length furnished.

Height in inches .....	16	22	28
Height above ground .....	12	18	24
Number of cables .....	3	4	5
Price per lineal foot .....	\$0.11	\$0.13	\$0.15



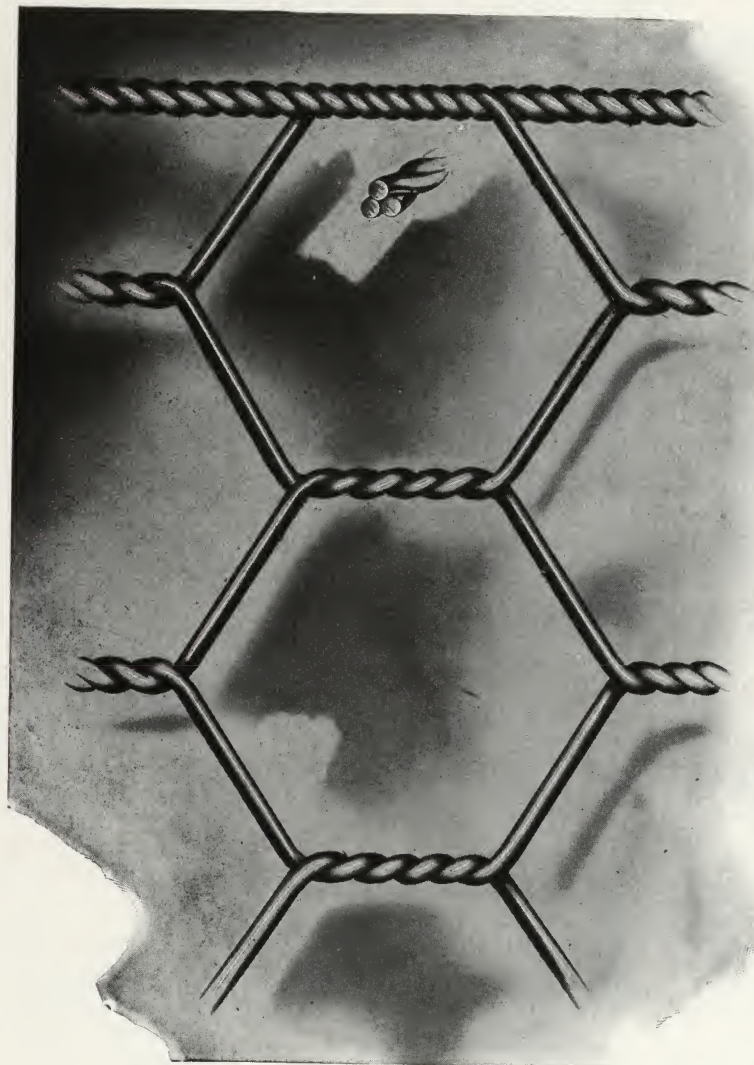


**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **"Cottage" Lawn and Garden Fencing**

Steel Wire—Galvanized After Woven  
Put up in rolls 165 feet long, (10 rods)



We recommend "Cottage" for front and division fences, also for gardens, parks and cemeteries.

The cut opposite shows size of mesh and wire.

The wire, which is steel, is drawn from stock of highest quality.

After being woven the fencing is given a very heavy coating of pure zinc by a special process, which renders it thoroughly rust-proof for many years.

The three-strand rope selvages contribute much to the strength of the fabric as well as giving it a finished appearance.

"Cottage" meets all the requirements for a perfect fence, namely, that it shall be strong enough to turn large animals, with meshes of suitable size to turn poultry and to prevent children climbing, that it shall be neat and attractive in appearance, durable and inexpensive.

### **PRICE LIST**

Width			
24 inches,	\$2.00	per rod (16½ feet),	\$12.12.1 per 100 lineal feet.
30 "	2.50	" "	15.15.1 "
36 "	3.00	" "	18.18.1 "
42 "	3.50	" "	21.21.2 "
48 "	4.00	" "	24.24.2 "
60 "	5.00	" "	30.30.3 "
72 "	6.00	" "	36.36.3 "

### **Directions for Stretching Woven Fencing:**

First stretch top selvage tight and fasten securely, then apply a stretcher to the lower selvage and take up all the slack, draw fabric down smooth by means of hook or piece of wood, then stretch lower selvage perfectly tight and fasten it to posts.

The mesh work should be fastened every other mesh.

To make fencing conform to surface of uneven ground, cut triangular piece out at posts.

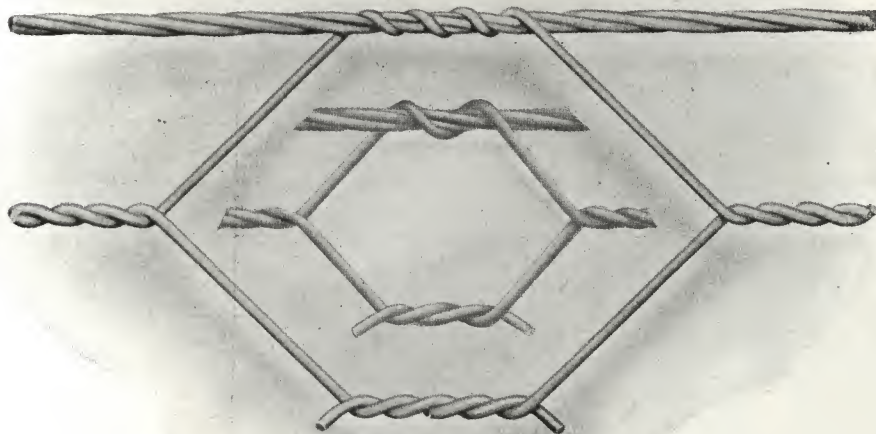




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Poultry Netting (Hexagonal Mesh)



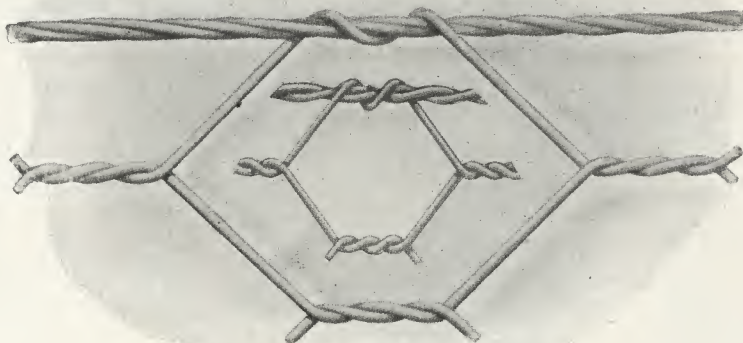
1 inch Mesh  
2 inch Mesh

### Galvanized After Woven

After the netting is woven it is cleaned in a solution of acid. It is then drawn through a bath of molten zinc (in fluid state) which thoroughly covers and coats the wires; and all joints and intersections become soldered together, making a fabric of strength and durability, protected from the action of the elements for many years.

### Galvanized Before Woven

Our galvanized before Poultry Netting fills a demand for a popular price netting. This is made of the same grade as the galvanized after, with the exception that the wire is galvanized before being woven into fabric.



3/4 inch Mesh  
1 1/2 inch Mesh

### LIST PRICE PER ROLL OF 150 LINEAL FEET, GALVANIZED AFTER AND GALVANIZED BEFORE WOVEN APPROXIMATE WEIGHT PER ROLL OF 150 LINEAL FEET, GALVANIZED AFTER WOVEN

		Price Weight		Price Weight		Price Weight		Price Weight		Price Weight		Price Weight		Price Weight		Price Weight		Price Weight		Price Weight	
Mesh	Wire	12"	12"	18"	18"	24"	24"	30"	30"	36"	36"	42"	42"	48"	48"	60"	60"	72"	72"		
2"	14					17.51	84	20.89	106	23.87	128	27.85	141	31.82	162	39.78	202	47.73	236		
2"	15		38		53	13.85	63	16.50	79	19.10	94	22.28	109	25.47	121	31.83	152	38.20	183		
*2"	16	6.24	31 1/2	8.75	42	10.95	50	13.05	61	15.25	70	17.79	83	20.33	95	25.42	117	30.50	136		
*2"	18		18		24 1/2	6.80	31		38	9.27	42		49	12.35	55 1/2	15.44	68 1/2	18.53	82		
*2"	19	2.48	13 1/2	3.56	18 1/2	4.54	24	5.42	29	6.19	34	7.22	39	8.25	44	10.32	52 1/2	12.38	61 1/2		
*2"	20	2.14	11	3.08	15	3.92	19	4.68	23	5.35	27	6.24	31	7.13	35	8.91	43	10.69	51		
1 1/2"	14				85	28.50	112	32.10	139	36.60	166	42.75	188	48.90	214	61.00	261	73.20	307		
1 1/2"	15				69	24.35	91	27.85	113	31.80	135	37.00	150	42.40	172	53.00	209	63.60	248		
1 1/2"	16				54	15.31	68	18.26	85	20.87	98	24.36	112	27.83	128	34.79	155	41.75	183		
1 1/2"	18				29	9.60	38	11.45	46	13.09	54 1/2	15.26	61	17.44	70	21.81	85	26.16	100		
*1 1/2"	19	4.13	16 1/2	5.94	23	7.57	30	9.04	36 1/2	10.32	41	12.04	48	13.76	53	17.20	65	20.64	77		
*1 1/2"	20	3.49	14	5.02	19 1/2	6.40	25	7.64	30	8.73	35	10.18	40	11.63	44	14.54	54	17.44	64		
1"	16		52		77	24.08	96	28.73	121	32.84	141	38.31	165	43.78	185	54.73	230	65.67	272		
1"	18		30		43 1/2	14.39	56	17.17	69	19.63	81	22.90	94	26.16	107	32.71	131	39.24	158		
*1"	19	6.05	22 1/2	8.70	32 1/2	11.09	41 1/2	13.24	52	15.13	61	17.65	71	20.17	80	25.21	98	30.25	118		
*1"	20	4.95	19	7.12	28	9.08	34 1/2	10.83	42	12.38	50	14.44	59	16.50	66	20.63	81	24.75	97		
* 3/4"	20	7.71	25	11.09	36	14.14	46	16.88	57	19.28	67	22.50	78	25.71	87	32.14	108	38.56	129		
Sq. Ft. per Roll		150		225		300		375		450		525		600		750		900			

Only Items Starred \* Furnished Galvanized Before Woven.





## Poultry Netting (Hexagonal Mesh) (Continued)



### NETTING SIZES RECOMMENDED

Baseball Backstops	2" mesh, No. 14 or 15
Chickens	1" mesh, No. 20
Dogs	2" mesh, No. 14 or 15
Fox	1½" or 2" mesh, No. 14, 15 or 16
Mink	¾" mesh, No. 18
Muskrat	1" mesh, No. 16 or 18
Pheasants	2" mesh, No. 19 or 20
Pigeons	2" mesh, No. 19 or 20
Plaster Netting	1½" or 2" mesh, No. 16 or 18
Poultry (grown)	2" mesh, No. 19 or 20
Rabbits	1" mesh, No. 18
Raccoon	1½" or 2" mesh, No. 14 or 15
Skunk	1" mesh, No. 18
Tennis-Courts	1½" mesh, No. 18

## Hercules Fence Posts

These posts, suitable for all types of wire fencing, are made of heavy seamless steel tubing and have heavy iron acorn tops, attached with a headless set screw. Posts, tops and fittings are hot galvanized, inside and out.

Line Posts are 2 in. in diameter and should be set at least 2 ft. into the ground.

End and Gate Posts are 2⅝ in. in diameter and should be set at least 2½ ft. into the ground. Each is furnished with one diagonal brace 1¾ in. in diameter, one clamp, bolt and nut for connecting brace to post.

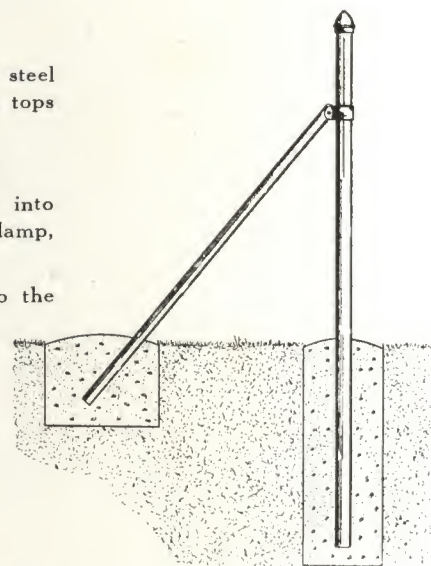
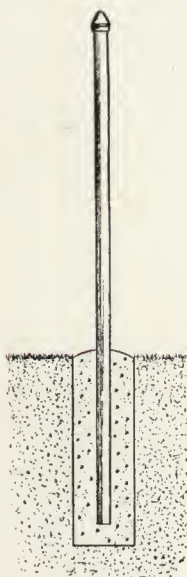
Corner Posts are 2⅝ in. in diameter and should be set at least 2½ ft. into the ground. Each is furnished with two diagonal braces 1¾ in. in diameter, two clamps, bolts and nuts for connecting braces to posts.

The depths specified above for inserting posts into the ground are based on using concrete, which we recommend. When concrete is not used the posts should be set at least 6 in. farther into the ground, depending on the kind of soil.

### LINE POSTS

Length	Weight	Price Each
5 ft.	14 lbs.	\$1.20
6 ft.	16 lbs.	1.40
6½ ft.	17 lbs.	1.50
7 ft.	19 lbs.	1.60
7½ ft.	20 lbs.	1.70
8 ft.	21 lbs.	1.80

Instead of the acorn tops shown, the Line Posts can be supplied with loop fittings to receive a 1⅝ in. outside diameter top rail. We also stock a full line of other fittings for making complete fences, such as clamps, rail ends, top rail joints, tension bars and aluminum staples for fastening wire fencing to posts and top rail. Illustrations and prices will be mailed upon request.



### END AND GATE POSTS

Length	Weight	Price Each
5½ ft.	38 lbs.	\$3.75
6½ ft.	42 lbs.	4.25
7 ft.	46 lbs.	4.50
7½ ft.	48 lbs.	4.75
8 ft.	52 lbs.	5.00
8½ ft.	54 lbs.	5.25

### CORNER POSTS

Length	Weight	Price Each
5½ ft.	52 lbs.	\$5.25
6½ ft.	56 lbs.	5.75
7 ft.	63 lbs.	6.25
7½ ft.	65 lbs.	6.50
8 ft.	71 lbs.	7.00
8½ ft.	73 lbs.	7.25

Braces are 5 ft. long for 5½ ft. and 6½ ft. posts; 6 ft. long for 7 ft. and 7½ ft. posts; 7 ft. long for 8 ft. and 8½ ft. posts.





## U Type "Supreme" Steel Fence Posts

**Strength**—"Supreme" Posts are made from new steel rolled into a channel or trough section, commonly called a "U." This type of section has long been used in ships and bridges and in its modified form it makes an unusually attractive fence post, both from standpoint of strength and appearance. The posts are rolled from specially selected steel which is exactly right for the purpose. The illustration shows the rows of closely spaced lugs to hold fence clamps and strengthen sides of posts.

**Finish**—"Supreme" Posts are finished with a heavy coat of special steel paint, having unusually high preservative and lasting qualities. Their color is Willow Green and the paint is baked on under a high temperature. They will stand up for many years and give satisfactory service.

**Driving**—"Supreme" Posts can be easily driven with an ordinary steel sledge, or our post driver. With the driver, a man without help, can easily set many posts in a day in perfect alignment.

**Wire Clamps**—The "Supreme" loop clamp offers a new way of fastening woven wire fence or barbed wire to steel posts. The wire is carried in a center loop which is large enough to give plenty of lateral movement. The fence wires being carried in a loop the clamp can be firmly fastened to the post between any set of lugs. Seven clamps furnished free with each post.

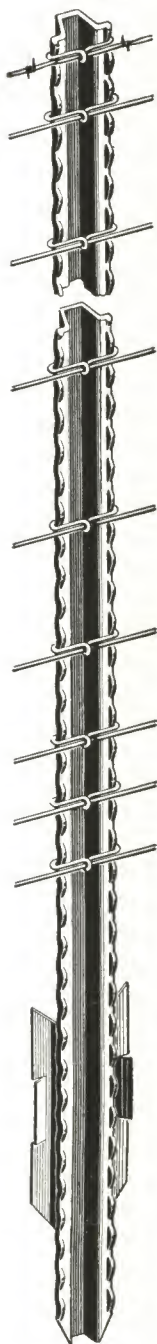
**Anchor or Face Plates**—"Supreme" anchor plates are 3 1/4" wide by 9 1/4" long, made in one piece and riveted to the back of the post. The anchor plate being attached lengthwise to the post gives increased ground facing and does away with the shearing point that is set up when anchor plates are applied crossways. The slit wings pack the dirt against the sides of the post.

Length, Feet	Approximate Weight Each in Lbs.	List Price Each
5	7.32	\$0.47
6	8.65	.56
6 1/2	9.32	.60
7	9.98	.64
7 1/2	10.65	.69
8	11.31	.73
Driver	17	2.00

"Supreme" Posts are Packed 5 to a Bundle  
Seven clamps furnished free with each post

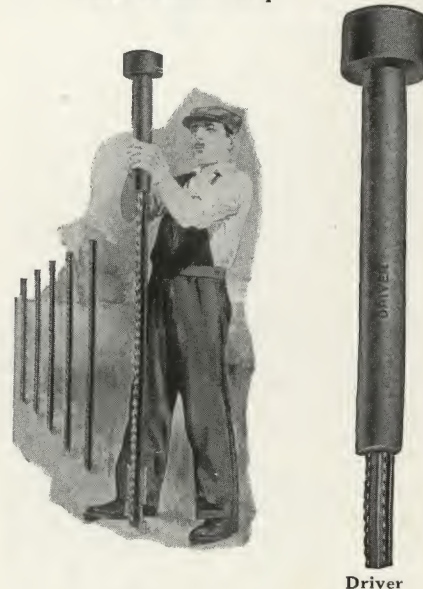
The depth to drive line posts varies according to the kind of soil, but under general average conditions for permanent farm fences, posts should be driven about 2 1/2 feet into the ground. The posts should extend above the ground about 2 inches more than the height of the fence, so add 32 inches to the height of the fence to be erected, to determine the length of post to use. For Low Lawn and Light Weight Poultry Fences, under same soil conditions, it will be sufficient to drive the posts 2 feet into the ground.

There should be a post for every rod (16 1/2 feet) on permanent Farm Fences and about every 8 feet on Lawn or Yard Fences. Line posts should not be set in concrete. For temporary fences posts can be set farther apart and not driven so far into the ground.



Anchor  
Patented

A Man or Boy Can Set  
Posts Without Help



Driver

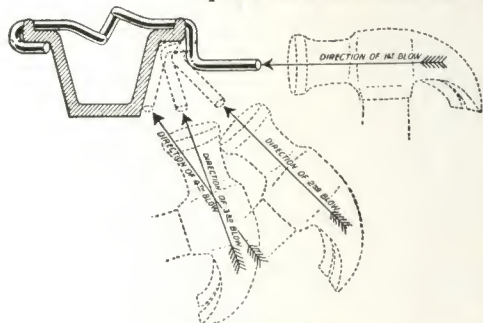


Figure No. 1

Figure No. 1 shows a convenient way to fasten the clamp by hitting the open leg square on the end, just like driving a nail. This will set the machine formed bend into corner behind the face.

Figure No. 2 shows how fence or barbed wire is attached to "Supreme" Posts. Drop loop clamp in position on post, between side lugs, with wire carried in loop. Any strain is equally distributed, drawing ends together, making clamp grip post as ice tongs grip into a cake of ice when lifted.

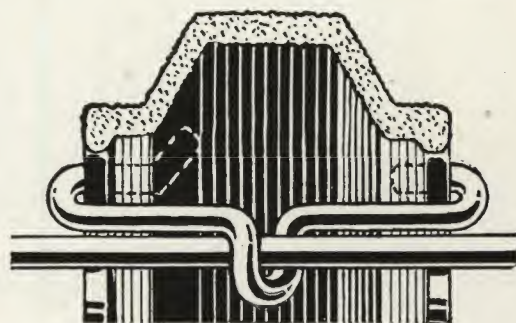


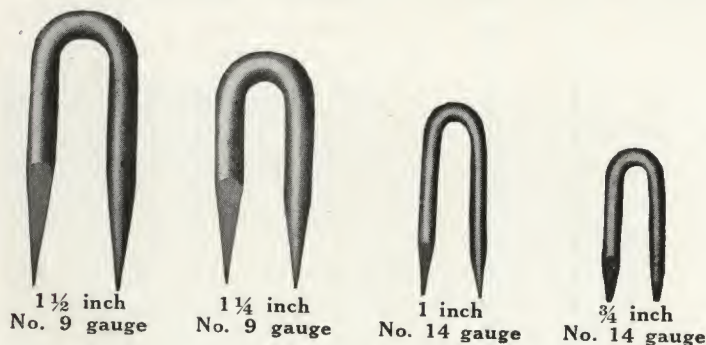
Figure No. 2—Actual Size of Post

FOR END, GATE AND CORNER POSTS REFER TO PRECEDING PAGE.





## Poultry Netting and Fence Staples



These Staples are made of Hard Steel Wire, galvanized by a special process, so the wire is coated very smoothly. Every Staple is perfectly pointed, and can be driven into hard wood. The sharp points can be started in wood with one hand, without tapping with the hammer. The 3/4 inch staples are recommended for light netting, 1 inch for heavy netting and the 1 1/4 inch and 1 1/2 inch for fencing. Prices quoted on application.

Length, Inches	No. of Gauge	Number to Pound
1 1/2	9	72
1 1/4	9	87
1	14	352
3/4	14	480

## MALLEABLE IRON PICKETS

(Japanned.)

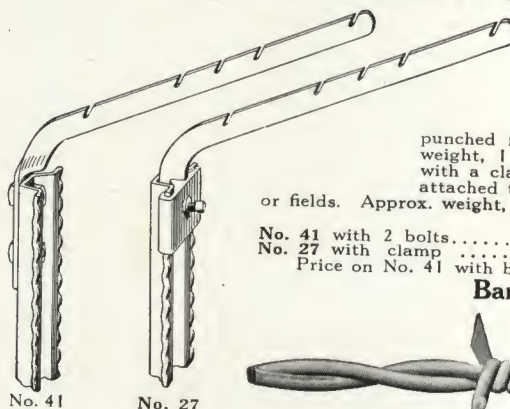


No. 2 Picket ..... List each, \$0.30

To make a fence ornamental, and at the same time add to its efficiency by keeping people from climbing over, use Malleable Iron Pickets. In above illustration we show a pattern which occupies 12 inches, and is 5 inches high. It is made heavy and drilled for screws; there is also a projection which is to be set in a 1/2-inch round hole. The pickets are strong and durable, and can readily be fastened on top of the rail, and will add much to the appearance of the fence.

## Barbed Wire Extension Arms, 12 Inches Long

For use with our "Supreme" U Type Fence Posts.

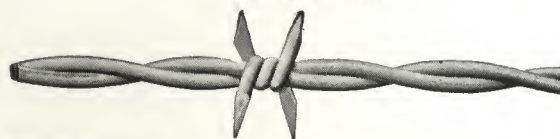


These are made of the best grade of flat rolled steel with 5 notches for barbed wire. Style No. 41 is designed to be bolted to the back of posts punched for the purpose. Approximate weight, 1 lb. Style No. 27 is equipped with a clamp and set screw and can be attached to "Supreme" U Posts in stock or fields. Approx. weight, 1 1/2 lbs.

	Painted	Galvanized
No. 41 with 2 bolts.....each,	\$0.36	\$0.45
No. 27 with clamp .....each,	.45	.54

Price on No. 41 with bolts includes post punching.

## Barbed Wire

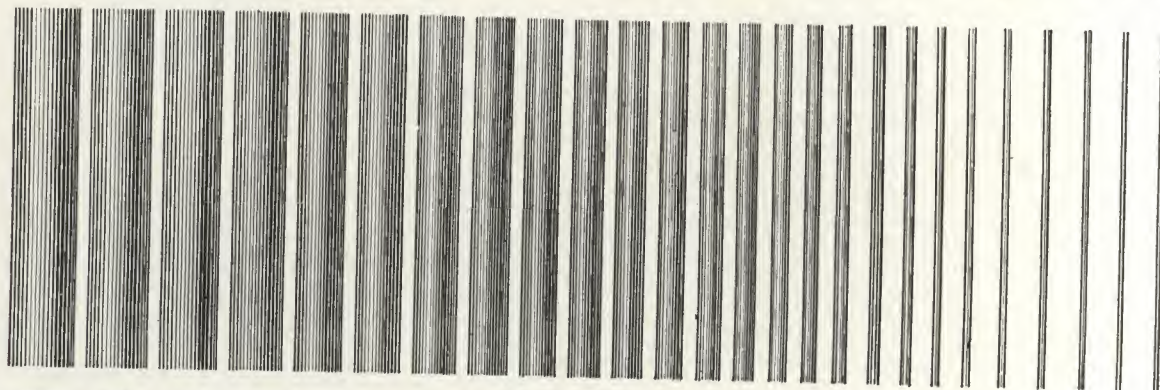


Barbed Wire can be supplied either galvanized or painted and with four-point or two-point barbs.

We show below sizes of iron and steel wire according to WASHBURN & MOEN GAUGE.

This has become the standard accepted gauge for iron and steel wire, and is used to describe all iron and steel wire products listed in this catalog; also the brass, copper, bronze, monel metal and nickel wire cloth.

No. of Gauge	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
--------------	----	---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----







# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## We List Below Sizes, Sectional Areas and Weights of Steel Wire, According to Washburn & Moen Gauge

This has become the standard accepted gauge for iron and steel wire, and is used to describe all iron and steel wire products listed in this catalog; also the brass, copper, bronze, monel metal and nickel Wire Cloth.

Number of Gauge	DIAMETERS		Sectional Area (square inches)	WEIGHT (pounds per foot)	LENGTH (feet per pound)	Number of Gauge	DIAMETERS		Sectional Area (square inches)	WEIGHT (pounds per foot)	LENGTH (feet per pound)
	Frac-tions of Inch	Decimals of Inch					Frac-tions of Inch	Deci-mals of Inch			
-----	1/2	.5000	.19635	.6668	1.500	12	-----	.1055	.0087417	.02969	33.69
0000000	-----	.4900	.18857	.6404	1.562	-----	3/32	.09375	.0069029	.02344	42.66
-----	15/32	.46875	.17257	.5861	1.706	13	-----	.0915	.0065755	.02233	44.78
000000	-----	.4615	.16728	.5681	1.76	14	-----	.0800	.0050266	.01707	58.58
-----	7/16	.4375	.15033	.5105	1.959	15	-----	.0720	.0040715	.01383	72.32
00000	-----	.4305	.14556	.4943	2.023	16	1/16	.0625	.0030680	.01042	95.98
-----	13/32	.40625	.12962	.4402	2.272	17	-----	.0540	.0022902	.007778	128.60
0000	-----	.3938	.12180	.4136	2.418	18	-----	.0475	.0017721	.006018	166.20
-----	3/8	.3750	.11045	.3751	2.666	19	-----	.0410	.0013203	.004484	223.00
000	-----	.3625	.10321	.3505	2.853	20	-----	.0348	.00095115	.003230	309.60
-----	11/32	.34375	.092806	.3152	3.173	21	-----	.0317	.00078924	.002680	373.10
00	-----	.3310	.086049	.2922	3.422	-----	1/32	.03125	.00076699	.002605	383.90
-----	5/16	.3125	.076699	.2605	3.839	22	-----	.0286	.00064242	.002182	458.4
0	-----	.3065	.073782	.2506	3.991	23	-----	.0258	.00052279	.001775	563.3
-----	-----	.2830	.062902	.2136	4.681	24	-----	.0230	.00041548	.001411	708.7
1	-----	.28125	.062126	.2110	4.74	25	-----	.0204	.00032685	.001110	900.9
-----	9/32	.2625	.054119	.1838	5.441	26	-----	.0181	.00025730	.0008738	1144.
2	-----	.2500	.049087	.1667	5.999	27	-----	.0173	.00023506	.0007983	1253.
-----	1/4	.2437	.046645	.1584	6.313	28	-----	.0162	.00020612	.0007000	1429.
3	-----	.2253	.039867	.1354	7.386	29	-----	.0150	.00017671	.0006001	1666.
-----	7/32	.21875	.037583	.1276	7.835	30	-----	.0140	.00015394	.0005228	1913.
4	-----	.2070	.033654	.1143	8.750	31	-----	.0132	.00013685	.0004647	2152.
5	-----	.1920	.028953	.09832	10.17	32	-----	.0128	.00012868	.0004370	2288.
-----	3/16	.1875	.027612	.09377	10.66	33	-----	.0118	.00010936	.0003714	2693.
6	-----	.1770	.024606	.08356	11.97	34	-----	.0104	.000084949	.0002885	3466.
-----	-----	.1620	.020612	.07000	14.29	35	-----	.0095	.000070882	.0002407	4154.
7	-----	.15625	.019175	.06512	15.36	36	-----	.0090	.000063617	.0002160	4629.
8	-----	.1483	.017273	.05866	17.05	37	-----	.0085	.000056745	.0001927	5189.
-----	5/32	.1435	.014314	.04861	20.57	38	-----	.0080	.000050266	.0001707	5858.
9	-----	.1350	.012272	.04168	24.00	39	-----	.0075	.000044179	.0001500	6665.
-----	1/8	.125	.011404	.03873	25.82	40	-----	.0070	.000038485	.0001307	7652.
10	-----	.1205									
-----	-----										
11	-----										

## Comparison of Various Other Metal Gauges

DIAMETERS ARE SHOWN IN DECIMAL PARTS OF AN INCH

Number of Gauge	American or Brown & Sharpe	Old Eng-lish or London	Birming-ham or Stubs	United States Standard	English Legal Standard	Number of Gauge	American or Brown & Sharpe	Old Eng-lish or London	Birming-ham or Stubs	United States Standard	English Legal Standard
0000	.460000	.454	.454	.40625	.400	19	.035890	.04	.042	.04375	.040
000	.409642	.425	.425	.375	.372	20	.031961	.035	.035	.0375	.036
00	.364796	.380	.380	.34375	.348	21	.028462	.0315	.032	.034375	.032
0	.324861	.340	.340	.3125	.324	22	.025346	.0295	.028	.03125	.028
1	.289297	.300	.300	.28125	.300	23	.022572	.027	.025	.028125	.024
2	.257627	.284	.284	.265625	.276	24	.020101	.025	.022	.025	.022
3	.229423	.259	.259	.25	.252	25	.017900	.023	.020	.021875	.020
4	.204307	.238	.238	.234375	.232	26	.015941	.0205	.018	.01875	.018
5	.181940	.220	.220	.21875	.212	27	.014195	.01875	.016	.0171875	.0164
6	.162023	.203	.203	.203125	.192	28	.012641	.0165	.014	.015625	.0148
7	.144285	.180	.180	.1875	.176	29	.011257	.0155	.013	.0140625	.0136
8	.128490	.165	.165	.171875	.160	30	.010025	.01375	.012	.0125	.0124
9	.114423	.148	.148	.15625	.144	31	.008928	.01225	.010	.0109375	.0116
10	.101897	.134	.134	.140625	.128	32	.007950	.01125	.009	.01015625	.0108
11	.090742	.120	.120	.125	.116	33	.007080	.01025	.008	.009375	.0100
12	.080808	.109	.109	.109375	.104	34	.006305	.0095	.007	.00859375	.0092
13	.071962	.095	.095	.09375	.092	35	.005615	.009	.005	.0078125	.0084
14	.064084	.083	.083	.078125	.080	36	.005000	.0075	.004	.00703125	.0076
15	.057068	.072	.072	.0703125	.072	37	.004453	.0065	....	.006640625	.0068
16	.050821	.065	.065	.0625	.064	38	.003965	.00575	....	.00625	.0060
17	.045257	.058	.058	.05625	.056	39	.003531	.005	....	.....	.0052
18	.040303	.049	.049	.05	.048	40	.003144	.0045	....	.....	.0048





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



### Wire Cloth and Screens

**HOW TO ORDER.** When ordering wire cloth or screens be particular to state mesh or space, size of wire, length, width and kind of metal. If possible send sample. In specifying rolling, forming or cutting to irregular shapes, be sure to give full information as to dimensions, allowance for laps, etc., with drawing where possible as an added precaution against errors.

**QUANTITY.** As the cost of manufacturing wire cloth and screens is very largely governed by the quantity made, it is of the utmost importance when writing for prices to state the number of lineal feet and width of each kind wanted. By doing this customers frequently avoid the delay incidental to our writing for this information before quoting. Less than full rolls of cloth cannot be sold at roll prices, as it costs very much more per foot to make small pieces than it does full rolls. No length less than 100 lineal feet shall be understood to be a roll.

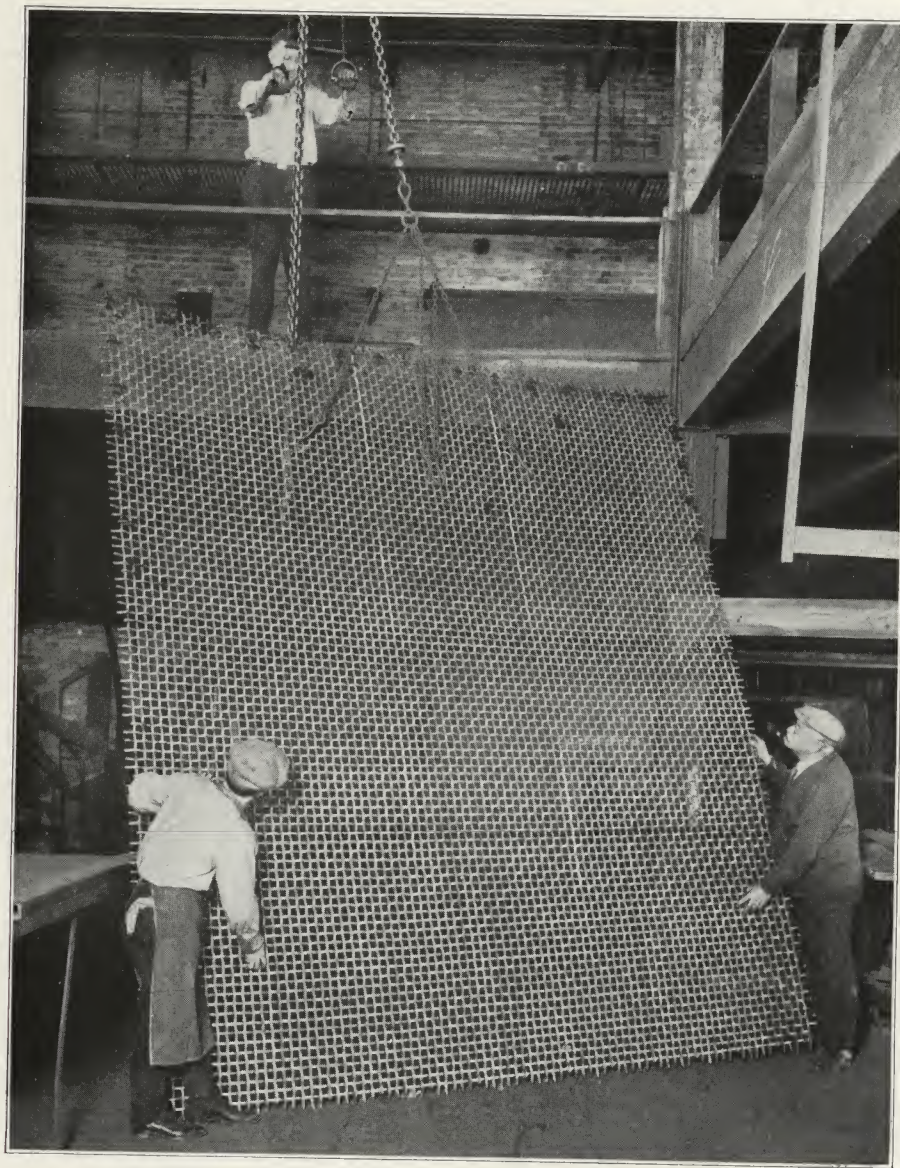
**EXACT LENGTHS.** Wire Cloth cannot always be made to exact length, and it has always been the custom of Wire Cloth Manufacturers to send and charge for what is woven, as the

excess would be an unsalable remnant. Such excess generally runs from about 5 to 10 per cent. We therefore reserve this privilege, unless specific arrangements are made prior to entering an order.

**WIDTHS.** Our regular stock widths are 24 inches, 30 inches, 36 inches, 42 inches and 48 inches. In some of the heavier grades of steel wire cloth we also stock 60 inch and 72 inch widths. However, any special width to the fractional part of an inch will be made to order.

All widths under 12 inches are charged for as 12 inches wide. An extra charge will also be made for widths narrower than 24 inches, and in some cases for widths over 48 inches.

**EXCHANGE OR RETURN OF GOODS.** Wire cloth or screens, when made specially to order in accordance with specifications or pieces cut from the roll according to order cannot be exchanged or returned to us for credit. Any claim for shortage or imperfection should be made immediately on receipt of goods.



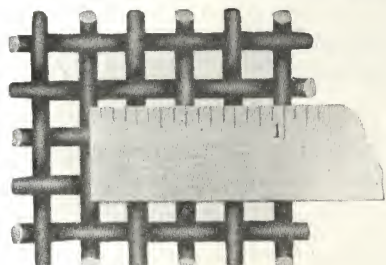
Photographic illustration shows a section of  $1\frac{1}{8}$  inch space,  $\frac{3}{8}$  inch square rod, steel screen, size 10'-6" x 11'-8". Weight of one section, 1050 lbs. This section with others were later rolled to form a cylindrical shape screen. Square rod screens give longer life than those made of round rods, and we manufacture them extensively for grading various mineral products.





## Wire Cloth and Screens (Continued)

**MESH.** The size of any mesh in wire cloth is the distance from center to center of its parallel wires—not the clear space between these wires. The numeral which precedes this word in the description of cloth indicates the number of openings it has in one lineal inch. Thus, 4 mesh means that the cloth has 4 openings per lineal inch, each measuring  $\frac{1}{4}$  inch from center to center of its parallel wires. Illustration shows 4 x 4 mesh.



4x4 mesh

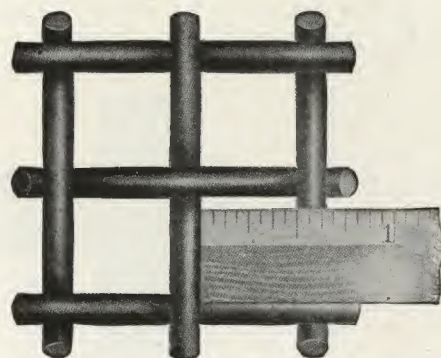
The clear space between the wires is determined by the size of wire used in the cloth and is found by deducting the diameter of one of its wires from the size of a mesh. Thus, if No. 16 steel wire (which is  $\frac{1}{16}$  inch diameter) were woven into 4 mesh cloth, it would show  $\frac{3}{16}$  inch clear space, or  $\frac{1}{4}$  inch (size of mesh) less  $\frac{1}{16}$  inch (diameter of wire).

When these facts are not understood by the buyer, he is frequently imposed upon by unprincipled parties who will furnish cloth having a space (not mesh) of the specified size, which represents less material and labor than are desired, therefore should be sold at a correspondingly lower price.

**SPACE.** This term, or as it is sometimes expressed "hole" or "opening," means the clear space between adjacent parallel wires, and its size is not affected by the diameter of wire used in the cloth or screen. Thus, cloth or screen of  $\frac{1}{2}$  inch space will allow material  $\frac{1}{2}$  inch in diameter to pass through it, regardless of the size of wire from which it is woven. Illustration shows  $\frac{1}{2}$  inch space.

The term "space" usually is applied to the heavy grade wire cloth or screen that is used for screening coal, gravel, ores, etc., and determines the size of product screened.

The lists shown on pages 60 and 61 are the only ones in which the term "space" is employed; in all other cases the term "mesh" is used.

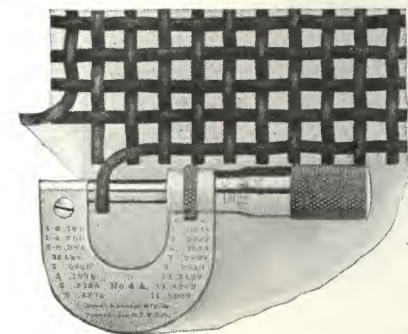


$\frac{1}{2}$  inch space

**GAUGE.** The recognized standard for gauging wire fabrics is the Washburn and Moen gauge. This gauge is used to describe all of our Iron, Steel, Galvanized, Tinned, Brass, Copper, Bronze, Nickel and Monel Metal Wire Cloth and Screens.

To protect himself against the practice of unscrupulous parties who will use a different gauge for the purpose of furnishing a smaller wire (which means less cost and service in the fabric), the buyer should see that he receives the diameter called for by the above standard gauge.

While we would prefer to have all sizes and kinds of wire described in decimals of an inch, instead of by numbers of any particular gauge, we appreciate the difficulty, if not impossibility, of changing a custom which has been in vogue for many years and is proving satisfactory to well-informed buyers who always hold the manufacturer to the above-mentioned standard.



**HOW TO DETERMINE THE GAUGE OF WIRE.** Gauging wire by means of a forked or split gauge, or by a disc gauge, is always unsatisfactory and usually inaccurate. Both the warp and the filling wire should be gauged by a ratchet micrometer which will indicate the diameter accurately to 1-1000 of an inch, as shown in illustration.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **DURO SCREENS**

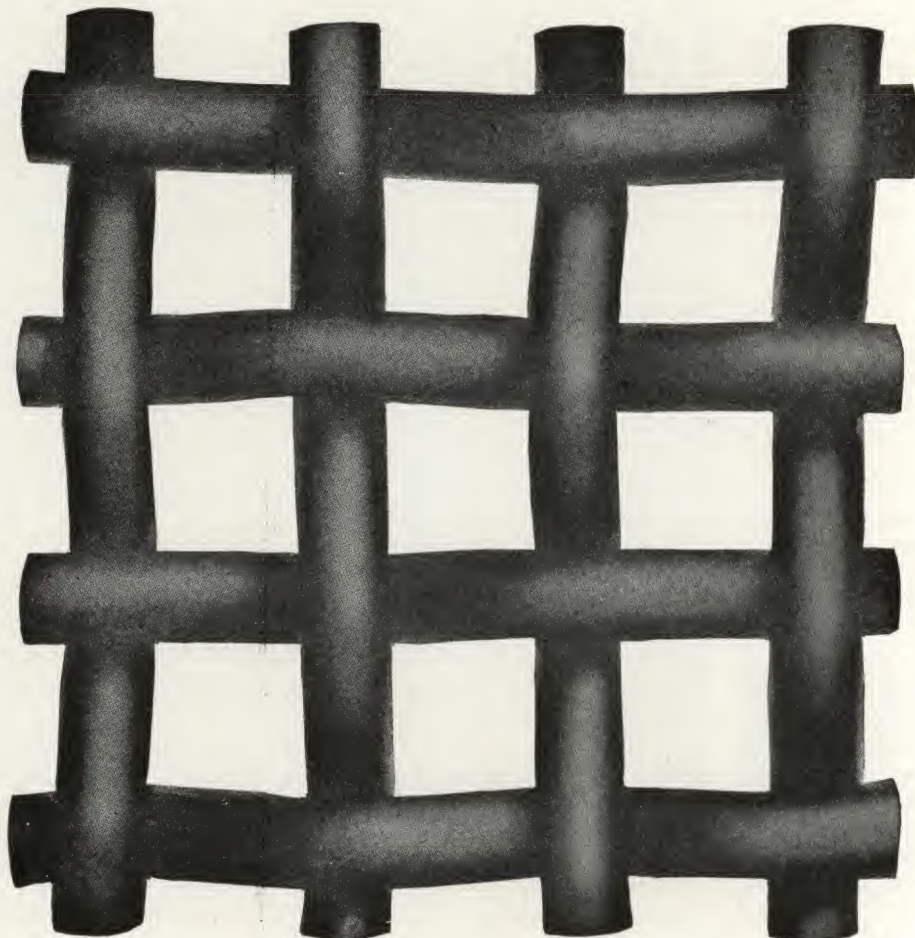
Our DURO SCREENS are woven from a specially treated steel wire, producing an exceptionally hard, durable metal affording superior resistance to extreme abrasion. The quality of our DURO SCREENS should not be compared with that of woven steel screens supplied by other manufacturers, made of common grades of steel wire, such as bright basic, Bessemer and annealed weaving wire.

In the past, coke and mining companies and other users of steel wire screens for grading ores and hard minerals have had little success in obtaining wire screens made of wire that was sufficiently durable to afford a reasonable length of life. The screens that have been offered quickly wore out, necessitating too frequent replacements, resulting in curtailment of production and involving considerable labor expense to install new screens.

Our DURO SCREENS have been tried out in the plants of Coke and Mining Companies and others, giving unusual satisfaction. One of our customers, a prominent coke corporation, wrote us under date of August 21st, 1925, stating they had used our DURO SCREENS in their Sintering Plant, and found them to be highly satisfactory screens. A copy of this testimonial will be mailed upon request.

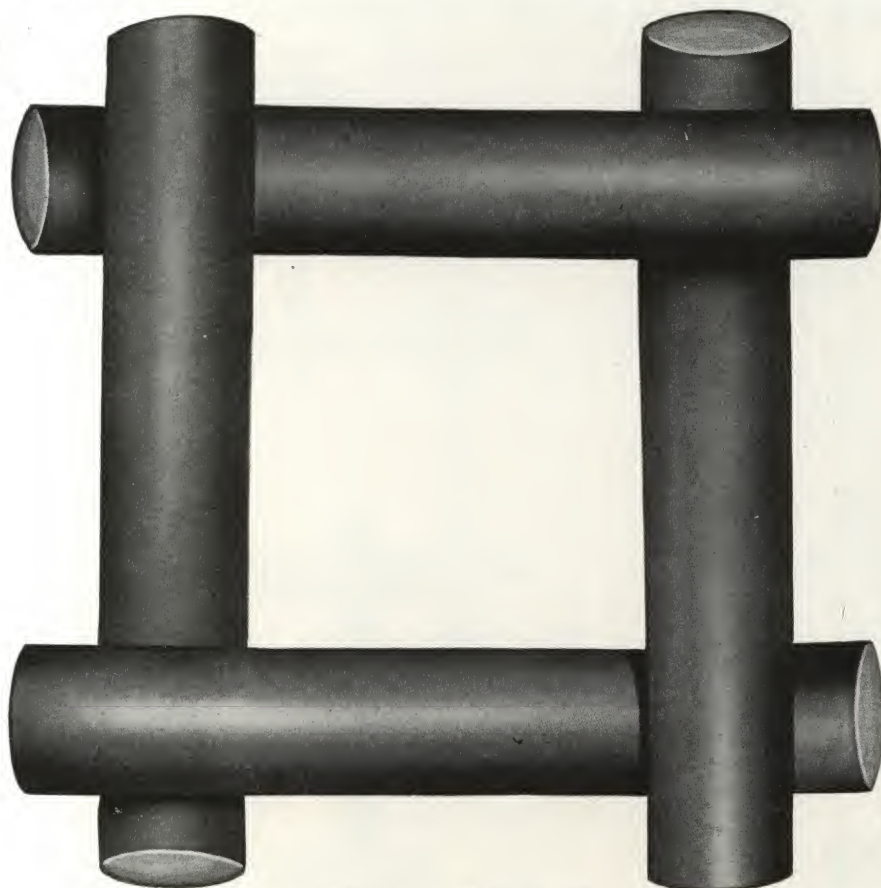
While the initial cost of our DURO SCREENS runs a trifle higher than that of screens woven from the common grades of steel wire, this is more than repaid in a very short time by their lasting qualities.

The list price for DURO SCREENS is the same as for heavy steel wire screens. Refer to pages 60 and 61.



$\frac{3}{4}$ " Space,  $\frac{1}{2}$ " Diameter Wire.





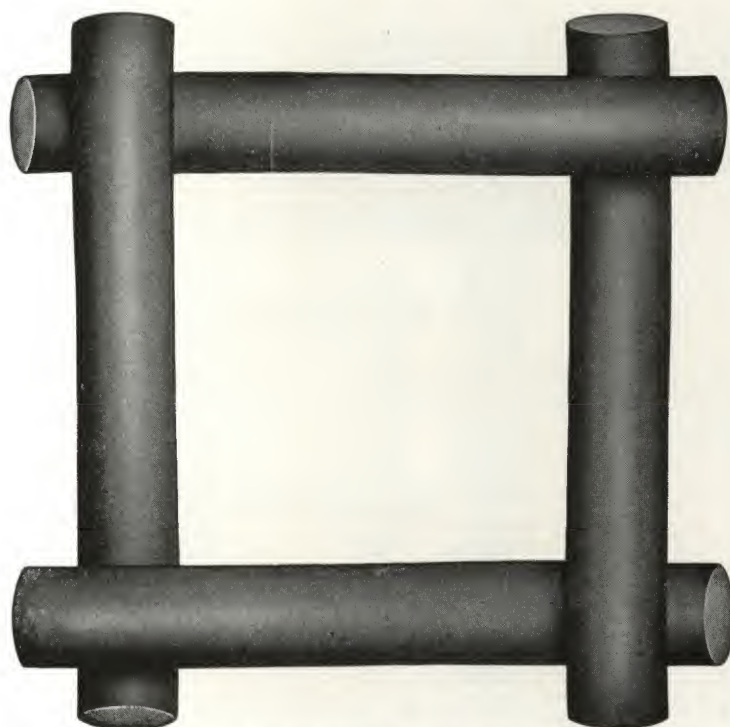
2 inch space,  $\frac{3}{4}$  inch rod

## Heavy Steel Wire Screens

We list on pages 60 and 61 screens by space or opening between the wires, from 4 inch space to  $\frac{3}{16}$  inch space.

For mechanical separation of crushed materials, coke, coal, ores, stone, gravel, etc., the space in the screen is of paramount importance.

When ordering these screens, specify the size of the space and wire, as "1 inch space,  $\frac{1}{4}$  inch wire," or specify wire by number or in decimals, as " $\frac{1}{2}$  inch space, No. 10 wire or .135 wire." (Refer to page 55).



2 inch space,  $\frac{1}{2}$  inch rod

In specifying rolling, forming or cutting to irregular shapes, be sure to give full information as to dimensions, allowance for laps, etc., with drawing where possible as an added precaution against errors.

Our Heavy Screens can be furnished in sections of exact length and width to which there is no limit, except as to convenient size for handling and shipping.

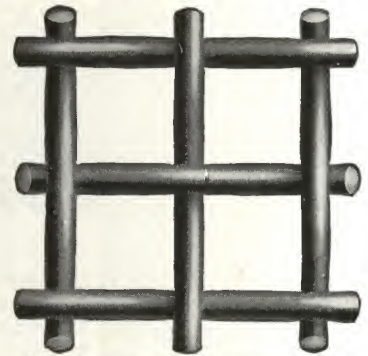




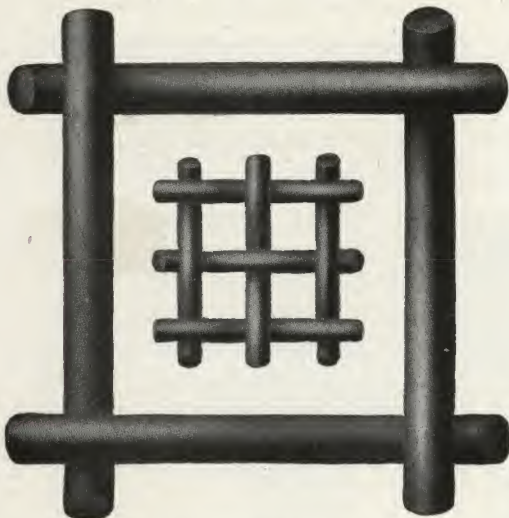
## Heavy Steel Wire Screens (Continued)

### STANDARD STOCK SIZES

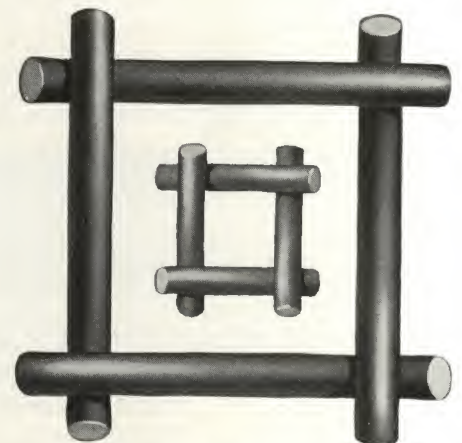
The sizes shown on this page with the 1 inch space, No. 6 Wire and 5/8 inch space, No. 9 Wire, shown on the succeeding page, are **Standard Stock Sizes** used for screening coal. They are also used for screening gravel, stone, ores, etc., as well as coal. Stock widths are 24 inches, 30 inches, 36 inches and 48 inches. Any other width will be made promptly to order. The wires are intermediately crimped both ways in all of these sizes, from 2 inch space to 3/4 inch space inclusive. In the 5/8 inch space, No. 9 wire, the wires are intermediately crimped one way. The smaller sizes cannot be furnished with intermediate crimp. The intermediate crimp prevents the wires from spreading and produces a rigid screen. Refer to pages 60 and 61 for price list.



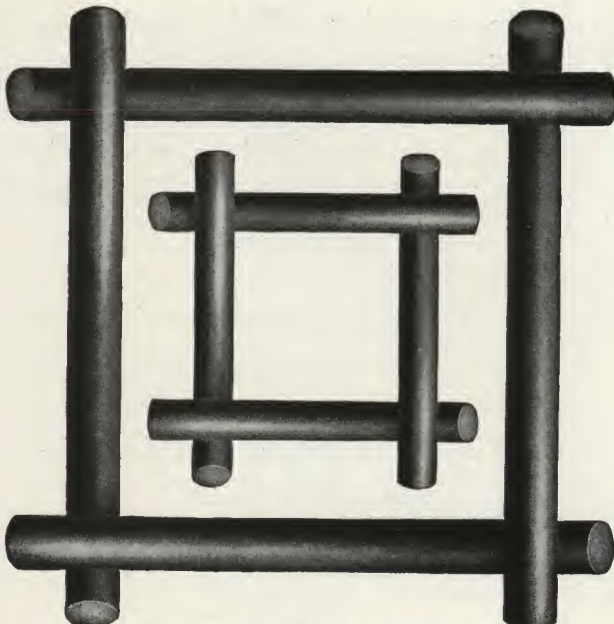
No. 10 Wire. 1/2 inch Space Cleans Chestnut Coal



No. 13 Wire. 1/4 inch Space Cleans Pea Coal  
3/4 inch Wire. 1 1/2 inch Space Takes Stove out of Egg Coal



No. 11 Wire. 3/8 inch Space Cleans Nut Coal and Coke  
No. 5 Wire. 1 1/4 inch Space Takes Nut out of Stove Coal



No. 7 Wire. 7/8 inch Space Cleans Stove Coal  
3/4 inch Wire. 2 inch Space Cleans Furnace and Large Egg

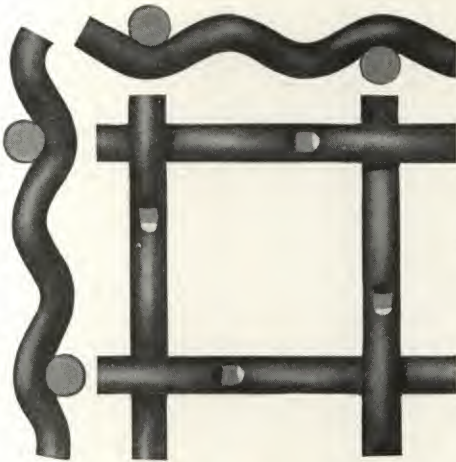


No. 8 Wire. 3/4 inch Space Cleans Coarse Stove and Small Egg  
3/4 inch Wire. 1 3/4 inch Space Takes Stove out of Egg Coal



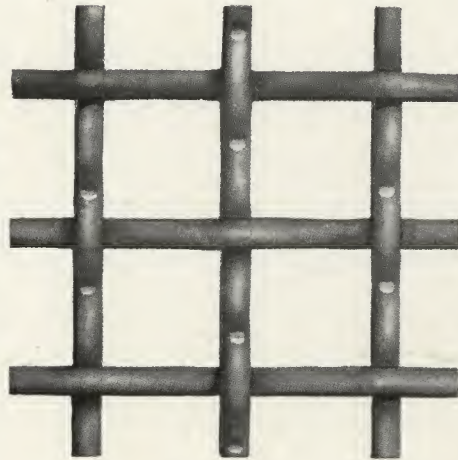


## **Heavy Steel Wire Screens (Continued)**



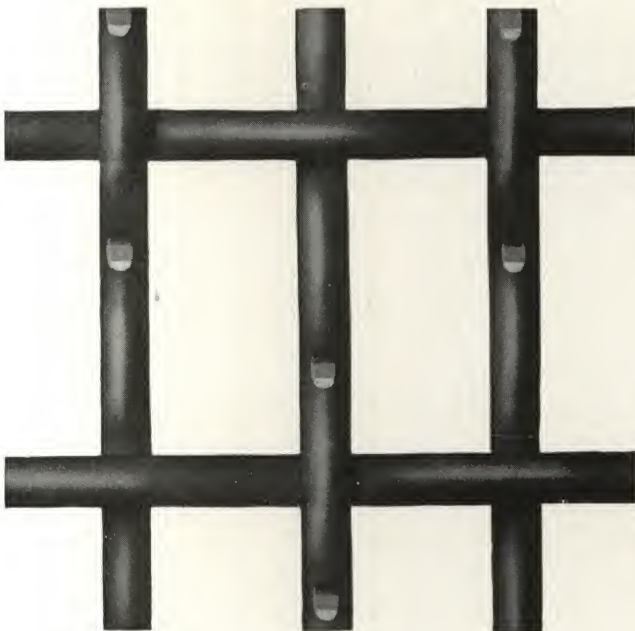
**Intermediate Crimp Both Ways**

No. 6 Wire. 1 inch space takes Chestnut out of Stove Coal

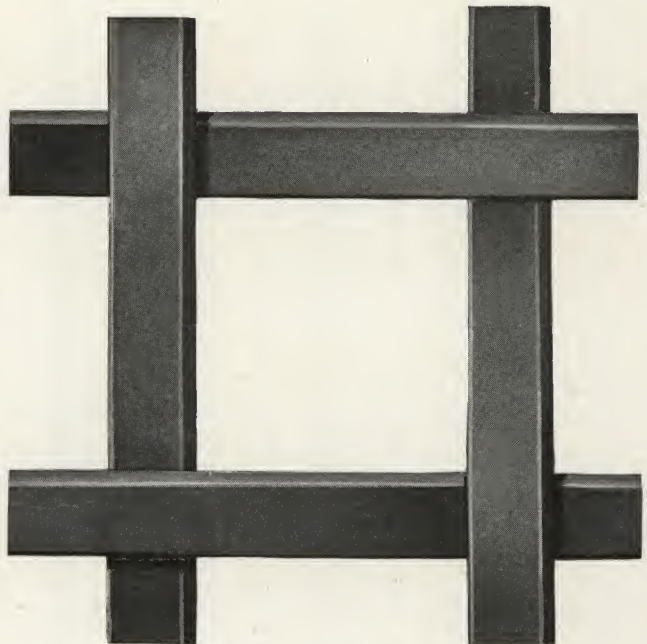


**Intermediate Crimp One Way**

No. 9 Wire.  $\frac{5}{8}$  inch space cleans Stove Coal



$\frac{3}{4}$  inch by  $1\frac{1}{2}$  inch oblong space,  $\frac{1}{4}$  inch wire  
**Intermediate Crimp One Way**



$1\frac{1}{2}$  inch space,  $\frac{3}{8}$  inch square rod

In ordering oblong space screens state in which direction long dimension of space or opening should run, whether with the short way or long way of screen.

We can furnish heavy screens rolled to shape and ready for application to the trommel or other frame.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Heavy Steel Wire Screens (Continued)

Space or Opening, Inches (See page 55)	Fractional Size of Wire or Number (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Approximate Weight per 100 Sq. Ft.	List Price per Square Foot	Space or Opening, Inches (See page 55)	Fractional Size of Wire or Number (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Approximate Weight per 100 Sq. Ft.	List Price per Square Foot
4	1"	1.	1370	\$1.50	2 1/4	1"	1.	2165	\$2.15
	3/4"	.75	800	1.25		3/4"	.75	1295	1.85
	1 1/8"	.6875	680	1.00		1 1/8"	.6875	1110	1.65
	5/8"	.625	570	.90		5/8"	.625	935	1.40
	1 1/16"	.5625	470	.70		1 1/16"	.5625	770	1.25
	1 1/2"	.5	375	.60		1 1/2"	.5	625	1.10
	7/16"	.4375	290	.55		7/16"	.4375	475	.95
	3/8"	.375	215	.50		3/8"	.375	365	.80
3 3/4	1"	1.	1445	1.60	2	1 1/8"	.6875	260	.65
	3/4"	.75	850	1.30		1 1/16"	.625	170	.50
	1 1/8"	.6875	720	1.05		1/4"	.25	135	.40
	5/8"	.625	605	.95		5	.207	115	.38
	1 1/16"	.5625	500	.75		1"	1.	2370	2.50
	1 1/2"	.5	395	.65		3/4"	.75	1425	2.15
	7/16"	.4375	310	.60		1 1/8"	.6875	1220	1.85
	3/8"	.375	230	.50		5/8"	.625	1030	1.50
3 1/2	1 1/8"	.6875	160	.36		1 1/16"	.5625	850	1.35
	1"	1.	1530	1.65		1 1/2"	.5	685	1.15
	3/4"	.75	905	1.35		7/16"	.4375	535	1.00
	1 1/8"	.6875	765	1.10		3/8"	.375	400	.90
	5/8"	.625	640	1.00		1 1/16"	.3125	285	.70
	1 1/16"	.5625	530	.80		1 1/8"	.25	185	.55
	1 1/2"	.5	425	.70		1/4"	.225	150	.45
	7/16"	.4375	325	.60		5	.207	130	.40
3 1/4	3/8"	.375	245	.55		6	.192	115	.38
	1 1/8"	.6875	175	.38	1 3/4	1"	1.	2600	2.75
	1"	1.	1625	1.75		3/4"	.75	1580	2.40
	3/4"	.75	960	1.45		1 1/8"	.6875	1355	2.00
	1 1/8"	.6875	815	1.20		5/8"	.625	1160	1.65
	5/8"	.625	685	1.05		1 1/16"	.5625	945	1.50
	1 1/16"	.5625	560	.90		1 1/2"	.5	765	1.25
	1 1/2"	.5	450	.75		7/16"	.4375	600	1.05
	7/16"	.4375	350	.70		3/8"	.375	450	.95
3	3/8"	.375	260	.55		1 1/16"	.3125	320	.75
	1 1/8"	.6875	175	.40		1 1/8"	.25	210	.60
	1"	1.	1735	1.85		1/4"	.225	170	.48
	3/4"	.75	1025	1.55		5	.207	150	.42
	1 1/8"	.6875	875	1.30		6	.192	130	.38
	5/8"	.625	730	1.10	1 1/2	1"	1.	2890	3.00
	1 1/16"	.5625	600	.95		3/4"	.75	1765	2.65
	1 1/2"	.5	485	.85		1 1/8"	.6875	1520	2.15
	7/16"	.4375	375	.70		5/8"	.625	1285	1.80
	3/8"	.375	280	.60		1 1/16"	.5625	1065	1.60
	1 1/8"	.6875	200	.45		1 1/2"	.5	865	1.40
	1/4"	.25	130	.35		7/16"	.4375	680	1.15
2 3/4	1"	1.	1850	2.00		3/8"	.375	515	1.00
	3/4"	.75	1105	1.65		1 1/16"	.3125	365	.80
	1 1/8"	.6875	940	1.50		1 1/8"	.25	240	.65
	5/8"	.625	790	1.25		1/4"	.225	195	.50
	1 1/16"	.5625	650	1.00		5	.207	170	.45
	1 1/2"	.5	520	.90		6	.192	150	.40
	7/16"	.4375	405	.80		7	.177	125	.35
	3/8"	.375	305	.65	1 1/4	3/4"	.75	2020	3.15
2 1/2	1 1/8"	.6875	215	.50		1 1/8"	.6875	1730	2.50
	1 1/16"	.5625	140	.38		5/8"	.625	1475	2.00
	1"	1.	1995	2.10		1 1/16"	.5625	1225	1.70
	3/4"	.75	1190	1.75		1 1/2"	.5	1000	1.50
	1 1/8"	.6875	1020	1.50		7/16"	.4375	790	1.35
	5/8"	.625	855	1.30		3/8"	.375	595	1.15
	1 1/16"	.5625	705	1.15		1 1/16"	.3125	430	.90
	1 1/2"	.5	570	1.00		1 1/8"	.25	285	.70
2 1/4	7/16"	.4375	440	.85		1/4"	.225	230	.55
	3/8"	.375	330	.75		5	.207	200	.48
	1 1/8"	.6875	235	.55		6	.192	175	.42
	1 1/16"	.5625	155	.40		7	.177	150	.38
	1"	1.	115	.38					





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Heavy Steel Wire Screens (Continued)

Space or Opening, Inches (See page 55)	Fractional Size of Wire or Number (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Approximate Weight per 100 Sq. Ft.	List Price per Square Foot	Space or Opening, Inches (See page 55)	Fractional Size of Wire or Number (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Approximate Weight per 100 Sq. Ft.	List Price per Square Foot
1	$\frac{3}{4}$ "	.75	2000	\$3.75	$\frac{1}{2}$	$\frac{7}{16}$ "	.4375	1500	\$2.50
	$\frac{11}{16}$ "	.6875	1700	3.00		$\frac{3}{8}$ "	.375	1150	2.00
	$\frac{5}{8}$ "	.625	1450	2.35		$\frac{1}{2}$ "	.3125	840	1.60
	$\frac{7}{8}$ "	.5625	1250	1.85		$\frac{1}{4}$ "	.25	550	1.20
	$\frac{1}{2}$ "	.5	1050	1.55		4	.225	500	.95
	$\frac{7}{16}$ "	.4375	880	1.40		5	.207	400	.80
	$\frac{3}{8}$ "	.375	670	1.25		6	.192	365	.68
	$\frac{1}{8}$ "	.3125	500	1.00		7	.177	310	.60
	$\frac{1}{4}$ "	.25	320	.75		8	.162	260	.55
	4	.225	270	.60		9	.148	220	.45
	5	.207	235	.55		10	.135	180	.40
	6	.192	205	.50		11	.120	160	.35
	7	.177	180	.42		12	.105	130	.30
7/8	8	.162	150	.38	7/16	$\frac{5}{16}$ "	.3125	900	1.75
	$\frac{5}{8}$ "	.625	1600	2.75		$\frac{9}{32}$ "	.2813	800	1.65
	$\frac{3}{8}$ "	.5625	1400	2.20		$\frac{17}{64}$ "	.2656	710	1.50
	$\frac{1}{2}$ "	.5	1150	1.75		$\frac{1}{4}$ "	.25	620	1.30
	$\frac{7}{16}$ "	.4375	975	1.50		4	.225	530	1.00
	$\frac{3}{8}$ "	.375	760	1.35		5	.207	470	.85
	$\frac{1}{8}$ "	.3125	550	1.20		6	.192	400	.75
	$\frac{1}{4}$ "	.25	385	.80		7	.177	350	.65
	4	.225	320	.70		8	.162	300	.58
	5	.207	260	.60		9	.148	250	.50
	6	.192	230	.52		10	.135	200	.42
	7	.177	200	.45		11	.120	170	.38
	8	.162	175	.40		12	.105	135	.32
3/4	$\frac{5}{8}$ "	.625	1825	3.25	3/8	$\frac{5}{16}$ "	.3125	950	2.15
	$\frac{3}{8}$ "	.5625	1550	2.60		$\frac{9}{32}$ "	.2813	850	1.75
	$\frac{1}{2}$ "	.5	1350	2.00		$\frac{17}{64}$ "	.2656	775	1.60
	$\frac{7}{16}$ "	.4375	1150	1.65		$\frac{1}{4}$ "	.25	680	1.50
	$\frac{3}{8}$ "	.375	850	1.50		4	.225	600	1.10
	$\frac{1}{8}$ "	.3125	600	1.40		5	.207	530	.90
	$\frac{1}{4}$ "	.25	400	.90		6	.192	470	.80
	4	.225	365	.75		7	.177	400	.75
	5	.207	320	.65		8	.162	340	.60
	6	.192	260	.55		9	.148	280	.55
	7	.177	225	.50		10	.135	230	.45
	8	.162	195	.45		11	.120	185	.40
	9	.148	170	.38		12	.105	140	.35
5/8	$\frac{3}{8}$ "	.5625	1800	3.00	5/16	4	.225	650	1.50
	$\frac{1}{2}$ "	.5	1550	2.50		5	.207	600	1.10
	$\frac{7}{16}$ "	.4375	1300	2.00		6	.192	530	.90
	$\frac{3}{8}$ "	.375	1000	1.65		7	.177	460	.80
	$\frac{1}{8}$ "	.3125	700	1.50		8	.162	390	.65
	$\frac{1}{4}$ "	.25	500	1.10		9	.148	340	.60
	4	.225	400	.90		10	.135	260	.50
	5	.207	365	.75		11	.120	220	.45
	6	.192	315	.60		12	.105	180	.38
	7	.177	260	.55		13	.092	140	.35
	8	.162	225	.50	1/4	$\frac{1}{4}$ "	.25	895	2.25
	9	.148	190	.40		4	.225	780	1.85
	10	.135	160	.35		5	.207	650	1.65
	11	.120	130	.30		6	.192	600	1.10
	12	.105	100	.25		7	.177	525	.90
5/8	$\frac{3}{8}$ "	.5625	1800	3.00		8	.162	430	.75
	$\frac{1}{2}$ "	.5	1550	2.50		9	.148	390	.65
	$\frac{7}{16}$ "	.4375	1300	2.00		10	.135	325	.55
	$\frac{3}{8}$ "	.375	1000	1.65		11	.120	260	.50
	$\frac{1}{8}$ "	.3125	700	1.50		12	.105	200	.45
	$\frac{1}{4}$ "	.25	500	1.10		13	.092	160	.38
	4	.225	400	.90	3/16	6	.192	650	1.70
	5	.207	365	.75		7	.177	600	1.10
	6	.192	315	.60		8	.162	510	.90
	7	.177	260	.55		9	.148	430	.75
	8	.162	225	.50		10	.135	390	.65
	9	.148	190	.40		11	.120	325	.55
	10	.135	160	.35		12	.105	260	.50
	11	.120	130	.30		13	.092	200	.45
	12	.105	100	.25					

Our Heavy Screens can be furnished in sections of exact length and width to which there is no limit except as to convenient size for handling and shipping.

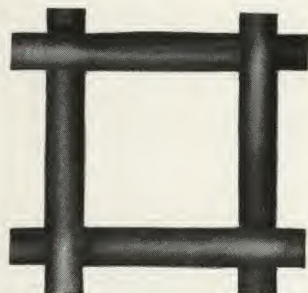




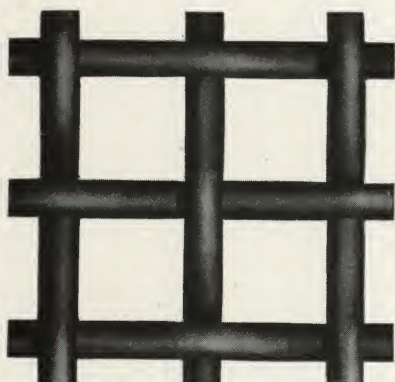
# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



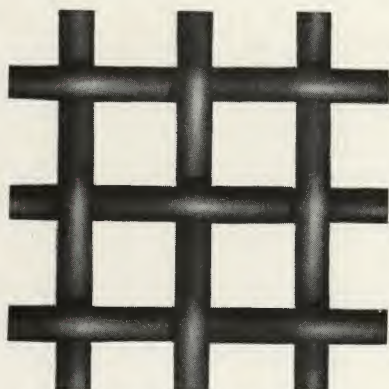
## Double Crimped Wire Cloth



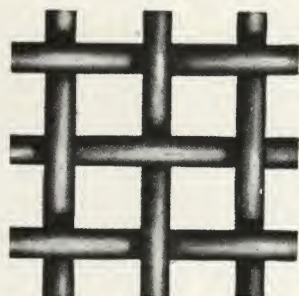
1 inch Mesh, No. 6 .192 Wire



3/4 inch Mesh, No. 6 .192 Wire



5/8 inch Mesh, No. 7 .177 Wire



2 Mesh, No. 8 .162 Wire

Mesh (Center to Center of Wire) (See page 55)	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 Sq. Ft.		List Price per Square Foot	
				Iron or Steel	Brass, Copper or Bronze	Iron or Steel	Brass, Copper or Bronze
1"	0	.307	.693	675		\$1.65	
	1	.283	.717	575		1.30	
	2	.263	.737	475		1.15	
	3	.244	.756	400	456	.90	\$5.50
	4	.225	.775	340	388	.75	4.50
	5	.207	.793	280	319	.60	3.75
	6	.192	.808	245	279	.55	3.25
	7	.177	.823	210	239	.50	3.00
	8	.162	.838	185	211	.40	2.50
	9	.148	.852	155	177	.35	2.00
	10	.135	.865	120	137	.30	1.50
	11	.120	.880	100	114	.25	1.25
	12	.105	.895	76	86	.22	.95
	13	.092	.908	55	63	.18	.75
	14	.080	.920	43	49	.15	.65
	15	.072	.928	33	38	.12	.60
	16	.063	.937		29		.50
3/4"	1	.283	.467	700		1.65	
	2	.263	.487	630		1.40	
	3	.244	.506	540		1.15	
	4	.225	.525	470	536	.90	5.50
	5	.207	.543	385	439	.75	4.50
	6	.192	.558	330	376	.60	3.75
	7	.177	.573	280	319	.55	3.25
	8	.162	.588	235	268	.50	3.00
	9	.148	.602	200	228	.40	2.50
	10	.135	.615	165	188	.35	2.00
	11	.120	.630	135	154	.30	1.50
	12	.105	.645	100	114	.25	1.25
	13	.092	.658	75	86	.20	.90
	14	.080	.670	55	63	.18	.75
	15	.072	.678	45	51	.15	.65
	16	.063	.687	35	40	.12	.55
	17	.054	.696		31		.48
5/8"	2	.263	.362	775		1.65	
	3	.244	.381	680		1.40	
	4	.225	.400	585		1.15	
	5	.207	.418	480	547	.90	6.00
	6	.192	.433	400	456	.75	5.00
	7	.177	.448	340	388	.60	4.00
	8	.162	.463	285	325	.55	3.50
	9	.148	.477	235	268	.45	3.00
	10	.135	.490	190	217	.40	2.50
	11	.120	.505	155	177	.35	2.00
	12	.105	.520	120	137	.30	1.40
	13	.092	.533	90	103	.23	1.00
	14	.080	.545	70	80	.19	.80
	15	.072	.553	54	62	.17	.70
	16	.063	.562	40	46	.15	.60
	17	.054	.571	32	36	.12	.50
	18	.047	.578	25		.10	
2 Meshes per inch	4	.225	.275	680	775	1.60	9.00
	5	.207	.293	600	684	1.15	7.50
	6	.192	.308	500	570	.90	6.00
	7	.177	.323	410	467	.75	5.00
	8	.162	.338	350	399	.60	4.00
	9	.148	.352	290	330	.55	3.50
	10	.135	.365	230	262	.45	3.00
	11	.120	.380	190	217	.40	2.50
	12	.105	.395	140	165	.35	2.00
	13	.092	.408	110	125	.25	1.40
	14	.080	.420	85	97	.20	1.00
	15	.072	.428	70	80	.18	.80
	16	.063	.437	53	60	.17	.65
	17	.054	.446	38	43	.13	.55
	18	.047	.453	29	33	.11	.45
	19	.041	.459	22		.10	



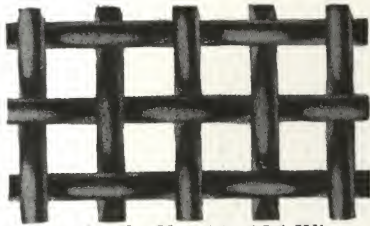


# F.P. SMITH WIRE AND IRON WORKS, CHICAGO

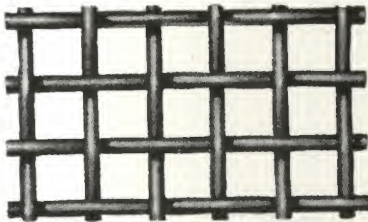


## Double Crimped Wire Cloth (Continued)

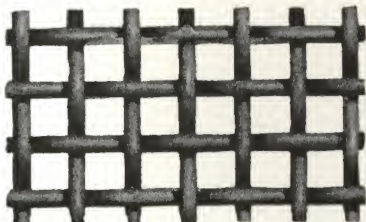
Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 Sq. Ft.		List Price per Square Foot	
				Iron or Steel	Brass, Copper or Bronze	Iron or Steel	Brass, Copper or Bronze
2½	6	.192	.208	630	718	\$1.30	\$9.00
	7	.177	.223	530	604	.95	6.50
	8	.162	.238	450	513	.75	5.00
	9	.148	.252	370	422	.60	4.25
	10	.135	.265	300	342	.55	3.50
	11	.120	.280	235	268	.45	2.75
	12	.105	.295	180	205	.38	2.25
	13	.092	.308	140	160	.35	1.60
	14	.080	.320	105	120	.25	1.25
	15	.072	.328	85	97	.20	1.00
	16	.063	.337	65	74	.18	.70
	17	.054	.346	47	54	.15	.60
	18	.047	.353	36	41	.12	.50
3	19	.041	.359	28	32	.11	.45
	20	.035	.365	20		.10	
	8	.162	.171	550	627	1.10	6.50
	9	.148	.185	445	507	.75	5.00
	10	.135	.198	365	412	.60	4.25
	11	.120	.213	290	328	.55	3.50
	12	.105	.228	220	251	.45	2.75
	13	.092	.241	165	188	.38	2.00
	14	.080	.253	125	143	.35	1.50
	15	.072	.261	105	120	.25	1.10
	16	.063	.270	77	88	.20	.85
	17	.054	.279	58	66	.17	.70
	18	.047	.286	45	51	.14	.60
3½	19	.041	.292	34	39	.12	.50
	20	.035	.298	24	27	.11	.45
	21	.032	.301	20		.10	
	9	.148	.138	500	570	1.00	6.00
	10	.135	.151	420	479	.75	4.75
	11	.120	.166	330	376	.60	3.75
	12	.105	.181	260	296	.55	3.00
	13	.092	.194	195	222	.45	2.25
	14	.080	.206	150	171	.38	1.75
	15	.072	.214	120	137	.30	1.30
	16	.063	.223	90	103	.25	1.00
	17	.054	.232	68	77	.20	.80
	18	.047	.239	50	57	.15	.65
4	19	.041	.245	35	40	.13	.55
	20	.035	.251	27	31	.12	.50
	21	.032	.254	22	25	.11	.40
	10	.135	.115	470	536	1.00	6.00
	11	.120	.130	370	422	.75	4.50
	12	.105	.145	295	336	.60	3.50
	13	.092	.158	225	257	.52	2.75
	14	.080	.170	168	192	.42	2.25
	15	.072	.178	135	154	.35	1.75
	16	.063	.187	100	114	.27	1.25
	17	.054	.196	75	86	.22	.90
	18	.047	.203	62	71	.19	.70
	19	.041	.209	45	51	.14	.60
4½	20	.035	.215	33	38	.13	.55
	21	.032	.218	26	28	.12	.45
	22	.028	.222	20		.10	
	23	.025	.225	17		.08	
	11	.120	.102	450	513	.90	5.25
	12	.105	.117	330	376	.75	4.00
	13	.092	.130	250	285	.60	3.35
	14	.080	.142	200	228	.50	2.50
	15	.072	.150	160	182	.42	1.90
	16	.063	.159	116	132	.32	1.50
	17	.054	.168	87	99	.25	1.05
	18	.047	.175	70	80	.22	.75
	19	.041	.181	50	57	.18	.65
4¾	20	.035	.187	35	40	.14	.60
	21	.032	.190	30	34	.13	.50
	22	.028	.194	23		.11	
	23	.025	.197	18		.10	



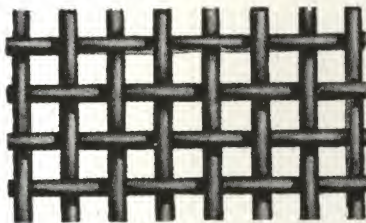
2½ Mesh, No. 10 .135 Wire



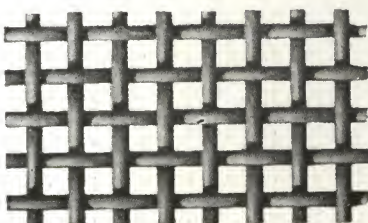
3 Mesh, No. 13 .092 Wire



3½ Mesh, No. 13 .092 Wire



4 Mesh, No. 12 .105 Wire



4¾ Mesh, No. 13 .092 Wire

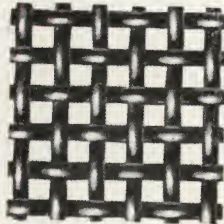




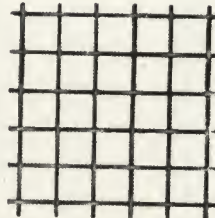
# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



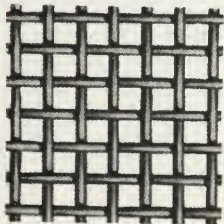
## Double Crimped Wire Cloth (Continued)



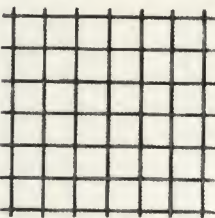
5 Mesh,  
No. 13 .092 Wire



5 Mesh,  
No. 22 .028 Wire



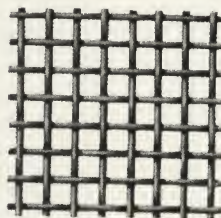
6 Mesh,  
No. 16 .063 Wire



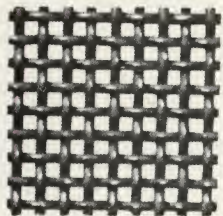
6 Mesh,  
No. 25 .020 Wire



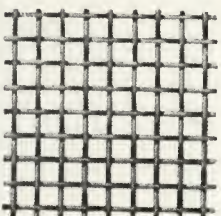
7 Mesh,  
No. 15 .072 Wire



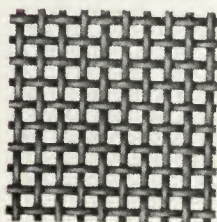
7 Mesh,  
No. 19 .041 Wire



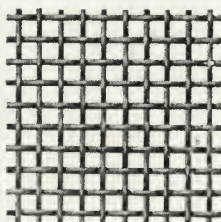
8 Mesh,  
No. 16 .063 Wire



8 Mesh,  
No. 20 .035 Wire



9 Mesh,  
No. 18 .047 Wire



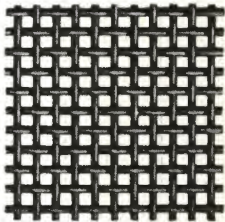
9 Mesh,  
No. 22 .028 Wire

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 Sq. Ft.		List Price per Square Foot	
				Iron or Steel	Brass, Copper or Bronze	Iron or Steel	Brass, Copper or Bronze
5	12	.105	.095	360	410	\$0.85	\$4.50
	13	.092	.108	275	314	.65	3.50
	14	.080	.120	212	242	.55	2.75
	15	.072	.128	168	192	.50	2.40
	16	.063	.137	130	148	.40	1.75
	17	.054	.146	95	108	.30	1.20
	18	.047	.153	75	86	.25	.90
	19	.041	.159	55	63	.22	.70
	20	.035	.165	40	46	.17	.65
	21	.032	.168	33	38	.14	.55
	22	.028	.172	26	30	.12	.45
	23	.025	.175	24		.11	
	24	.023	.177	17		.10	
6	13	.092	.075	330	376	.80	4.50
	14	.080	.087	250	285	.60	3.25
	15	.072	.095	200	228	.55	2.75
	16	.063	.104	150	171	.50	2.25
	17	.054	.113	115	131	.40	1.60
	18	.047	.120	88	100	.30	1.10
	19	.041	.126	65	74	.25	.85
	20	.035	.132	48	55	.22	.70
	21	.032	.135	40	46	.17	.60
	22	.028	.139	30	34	.14	.50
	23	.025	.142	25	29	.12	.45
	24	.023	.144	20		.11	
	25	.020	.147	16		.10	
7	14	.080	.063	285	325	.80	4.00
	15	.072	.071	235	268	.60	3.00
	16	.063	.080	180	205	.55	2.50
	17	.054	.089	135	154	.50	2.00
	18	.047	.096	105	120	.40	1.50
	19	.041	.102	75	86	.30	1.00
	20	.035	.108	55	63	.25	.80
	21	.032	.111	44	50	.22	.65
	22	.028	.115	35	40	.17	.55
	23	.025	.118	30	34	.14	.50
	24	.023	.120	25	29	.12	.45
	25	.020	.123	20		.11	
	26	.018	.125	15		.10	
8	15	.072	.053	270	308	.80	3.50
	16	.063	.062	200	228	.60	2.75
	17	.054	.071	150	171	.55	2.25
	18	.047	.078	120	137	.50	1.75
	19	.041	.084	90	103	.40	1.25
	20	.035	.090	65	74	.30	1.00
	21	.032	.093	50	57	.25	.80
	22	.028	.097	40	46	.22	.65
	23	.025	.100	34	39	.17	.55
	24	.023	.102	27	31	.14	.50
	25	.020	.105	21	24	.12	.45
	26	.018	.107	17		.11	
	27	.017	.108	14		.10	
9	15	.072	.039		345		4.00
	16	.063	.048	225	257	.75	3.25
	17	.054	.057	168	192	.60	2.50
	18	.047	.064	130	148	.55	2.00
	19	.041	.070	95	108	.50	1.60
	20	.035	.076	70	80	.40	1.15
	21	.032	.079	60	68	.30	.90
	22	.028	.083	45	51	.25	.75
	23	.025	.086	37	42	.22	.60
	24	.023	.088	32	36	.17	.55
	25	.020	.091	24	27	.14	.50
	26	.018	.093	20	23	.12	.45
	27	.017	.094	17		.11	
	28	.016	.095	15		.10	

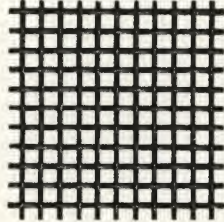




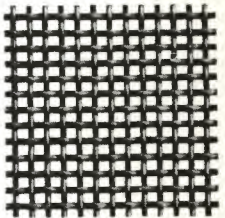
## Double Crimped Wire Cloth (Continued)



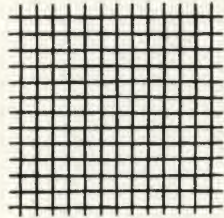
10 Mesh,  
No. 18 .047 Wire



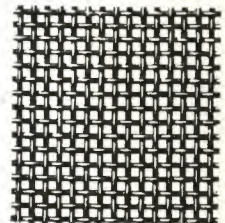
10 Mesh,  
No. 23 .025 Wire



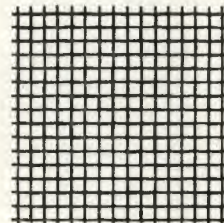
12 Mesh,  
No. 20 .035 Wire



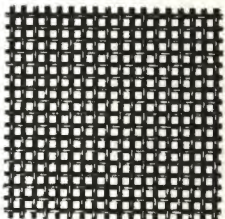
12 Mesh,  
No. 26 .018 Wire



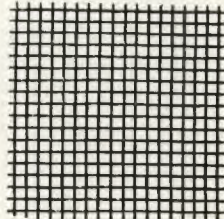
14 Mesh,  
No. 20 .035 Wire



14 Mesh,  
No. 25 .020 Wire



16 Mesh,  
No. 22 .028 Wire



16 Mesh,  
No. 30 .014 Wire

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 Sq. Ft.		List Price per Square Foot	
				Iron or Steel	Brass, Copper or Bronze	Iron or Steel	Brass, Copper or Bronze
10	17	.054	.046	188	214	\$0.75	\$2.75
	18	.047	.053	150	171	.60	2.25
	19	.041	.059	110	125	.55	1.75
	20	.035	.065	80	91	.50	1.50
	21	.032	.068	65	74	.40	1.00
	22	.028	.072	52	57	.30	.85
	23	.025	.075	40	46	.25	.65
	24	.023	.077	34	39	.20	.60
	25	.020	.080	26	30	.15	.55
	26	.018	.082	22	25	.14	.50
	27	.017	.083	20		.12	
	28	.016	.084	16		.11	
	29	.015	.085	14		.10	
12	18	.047	.036	170	194	.75	2.75
	19	.041	.042	125	143	.60	2.25
	20	.035	.048	95	108	.55	1.75
	21	.032	.051	78	89	.50	1.50
	22	.028	.055	60	68	.40	1.00
	23	.025	.058	50	57	.30	.85
	24	.023	.060	40	46	.25	.65
	25	.020	.063	30	34	.20	.60
	26	.018	.065	26	30	.15	.55
	27	.017	.066	24	27	.14	.45
	28	.016	.067	20		.12	
	29	.015	.068	18		.11	
	30	.014	.069	14		.10	
14	19	.041	.030	140	160	.75	2.75
	20	.035	.036	105	120	.60	2.25
	21	.032	.039	90	103	.55	1.75
	22	.028	.043	70	80	.50	1.35
	23	.025	.046	60	65	.40	1.00
	24	.023	.048	47	54	.30	.80
	25	.020	.051	40	46	.25	.65
	26	.018	.053	30	34	.20	.60
	27	.017	.054	25	28	.15	.50
	28	.016	.055	23	26	.14	.45
	29	.015	.056	20	23	.12	.43
	30	.014	.057	17		.11	
	31	.0132	.0578	15		.10	
16	32	.0128	.0582	13		.09	
	33	.0118	.0592	12		.08	
	34	.0104	.0606	10		.07	
	19	.041	.0215	150	171	1.20	3.25
	20	.035	.0275	120	137	1.00	2.75
	21	.032	.0305	100	114	.80	2.00
	22	.028	.0345	80	91	.60	1.50
	23	.025	.0375	68	78	.50	1.25
	24	.023	.0395	55	63	.40	.90
	25	.020	.0425	43	49	.32	.70
	26	.018	.0445	35	40	.27	.65
	27	.017	.0455	30	34	.20	.55
	28	.016	.0465	26	30	.17	.50
	29	.015	.0475	22	25	.15	.45
	30	.014	.0485	20	23	.13	.43
	31	.0132	.0493	17	19	.12	.40
	32	.0128	.0497	15		.11	
	33	.0118	.0507	13		.10	
	34	.0104	.0521	11		.09	
	35	.0095	.0530	9		.08	

NO LENGTH LESS THAN 100 LINEAL FEET SHALL BE UNDERSTOOD TO BE A ROLL.

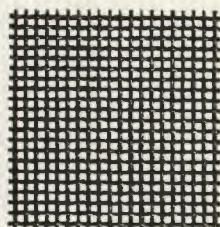




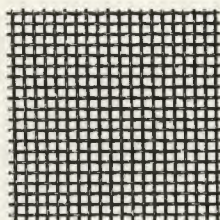
# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



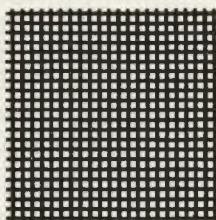
## Double Crimped Wire Cloth (Continued)



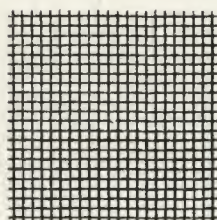
18 Mesh,  
No. 23 .025 Wire



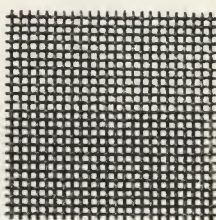
18 Mesh,  
No. 28 .016 Wire



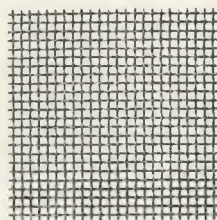
20 Mesh,  
No. 23 .025 Wire



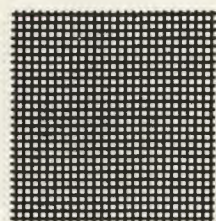
20 Mesh,  
No. 30 .014 Wire



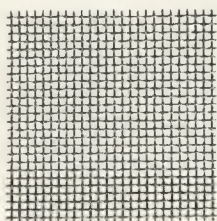
22 Mesh,  
No. 24 .023 Wire



22 Mesh,  
No. 29 .015 Wire



24 Mesh,  
No. 26 .018 Wire



24 Mesh,  
No. 30 .014 Wire

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 Sq. Ft.		List Price per Square Foot	
				Iron or Steel	Brass, Copper or Bronze	Iron or Steel	Brass, Copper or Bronze
18	20	.035	.0206	130	148	\$1.20	\$3.25
	21	.032	.0236	112	128	1.00	2.50
	22	.028	.0276	90	103	.80	2.00
	23	.025	.0306	75	86	.60	1.50
	24	.023	.0326	62	71	.50	1.25
	25	.020	.0356	50	57	.40	.85
	26	.018	.0376	40	46	.32	.70
	27	.017	.0386	35	40	.27	.60
	28	.016	.0396	30	34	.24	.55
	29	.015	.0406	26	30	.22	.50
	30	.014	.0416	22	25	.20	.45
	31	.0132	.0424	20	23	.19	.43
	32	.0128	.0428	16	18	.18	.40
	33	.0118	.0438	14	16	.16	.38
	34	.0104	.0452	12		.14	
	35	.0095	.0461	10		.13	
	36	.0090	.0466	9		.12	
20	21	.032	.0180		130		3.00
	22	.028	.0220	100	114	1.00	2.50
	23	.025	.0250	80	91	.90	2.00
	24	.023	.0270	70	80	.65	1.50
	25	.020	.0300	56	64	.50	1.15
	26	.018	.0320	41	47	.40	.80
	27	.017	.0330	37	42	.35	.65
	28	.016	.0340	34	39	.27	.60
	29	.015	.0350	28	32	.25	.55
	30	.014	.0360	25	29	.23	.50
	31	.0132	.0368	22	25	.21	.45
	32	.0128	.0372	20	23	.20	.43
	33	.0118	.0382	17	19	.19	.40
	34	.0104	.0396	13	15	.18	.32
	35	.0095	.0405	11	13	.17	.28
	36	.0090	.0410	10		.16	
22	22	.028	.0175	105	120	1.20	3.00
	23	.025	.0205	90	103	1.00	2.50
	24	.023	.0225	75	86	.90	2.00
	25	.020	.0255	61	70	.65	1.50
	26	.018	.0275	47	54	.50	1.10
	27	.017	.0285	40	46	.40	.75
	28	.016	.0295	36	41	.35	.65
	29	.015	.0305	30	34	.30	.60
	30	.014	.0315	27	31	.26	.55
	31	.0132	.0323	24	27	.24	.50
	32	.0128	.0327	21	24	.23	.45
	33	.0118	.0337	18	21	.22	.43
	34	.0104	.0351	16	18	.21	.35
	35	.0095	.0360	13	15	.20	.32
	36	.0090	.0365	11	13	.18	.28
24	24	.023	.0187	80	91	1.00	2.50
	25	.020	.0217	65	74	.90	2.00
	26	.018	.0237	51	58	.65	1.40
	27	.017	.0247	46	52	.50	1.00
	28	.016	.0257	40	46	.40	.75
	29	.015	.0267	35	40	.35	.65
	30	.014	.0277	30	34	.30	.60
	31	.0132	.0285	27	31	.26	.55
	32	.0128	.0289	24	27	.24	.50
	33	.0118	.0299	20	23	.23	.45
	34	.0104	.0313	17	19	.22	.40
	35	.0095	.0322	14	16	.21	.35
	36	.0090	.0327	12	14	.20	.32
	37	.0085	.0332		12		.30
	38	.0080	.0337		10		.28
	39	.0075	.0342		9		.26



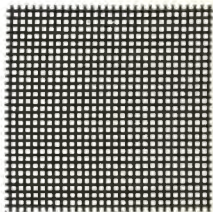


# F.P. SMITH WIRE AND IRON WORKS, CHICAGO

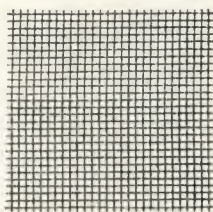


## Double Crimped Wire Cloth (Continued)

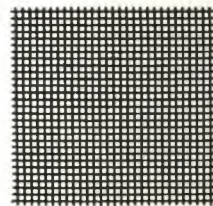
Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 Sq. Ft.		List Price per Square Foot	
				Iron or Steel	Brass, Copper or Bronze	Iron or Steel	Brass, Copper or Bronze
26	25	.020	.0185		80		\$2.50
	26	.018	.0205	60	68	\$0.90	1.75
	27	.017	.0215	50	57	.65	1.25
	28	.016	.0225	44	55	.50	.90
	29	.015	.0235	37	42	.40	.70
	30	.014	.0245	32	36	.35	.65
	31	.0132	.0253	28	32	.30	.60
	32	.0128	.0257	25	29	.26	.55
	33	.0118	.0267	22	25	.24	.50
	34	.0104	.0281	19	22	.23	.43
	35	.0095	.0290	15	17	.22	.40
	36	.0090	.0295	13	15	.21	.35
	37	.0085	.0300		13		.33
	38	.0080	.0305		11		.32
	39	.0075	.0310		10		.31
28	26	.018	.0177		70		2.00
	27	.017	.0187	53	60	.90	1.40
	28	.016	.0197	48	55	.65	1.00
	29	.015	.0207	40	46	.50	.85
	30	.014	.0217	35	40	.40	.70
	31	.0132	.0225	30	34	.35	.65
	32	.0128	.0229	27	31	.30	.60
	33	.0118	.0239	24	27	.28	.55
	34	.0104	.0253	20	23	.26	.45
	35	.0095	.0262	15	17	.24	.43
	36	.0090	.0267	14	16	.23	.40
	37	.0085	.0272		14		.38
	38	.0080	.0277		12		.35
	39	.0075	.0282		10		.32
30	27	.017	.0163	58	66	1.00	1.60
	28	.016	.0173	50	57	.90	1.25
	29	.015	.0183	43	49	.60	1.00
	30	.014	.0193	38	43	.45	.85
	31	.0132	.0201	35	40	.40	.70
	32	.0128	.0205	30	34	.35	.65
	33	.0118	.0215	26	30	.30	.60
	34	.0104	.0229	21	24	.28	.50
	35	.0095	.0238	16	18	.26	.45
	36	.0090	.0243	14	17	.24	.43
	37	.0085	.0248		15		.42
	38	.0080	.0253		14		.40
	39	.0075	.0258		12		.35
32	28	.016	.0153	55	63	1.00	1.50
	29	.015	.0163	48	55	.90	1.25
	30	.014	.0173	42	48	.55	1.00
	31	.0132	.0181	36	41	.45	.85
	32	.0128	.0185	31	35	.40	.70
	33	.0118	.0195	27	31	.35	.65
	34	.0104	.0209	24	27	.30	.55
	35	.0095	.0218	20	23	.28	.50
	36	.0090	.0223	16	18	.26	.45
	37	.0085	.0228		16		.44
	38	.0080	.0233		15		.43
	39	.0075	.0238		14		.40
35	28	.016	.0126	56	64	1.25	2.00
	29	.015	.0136	52	59	1.00	1.50
	30	.014	.0146	45	51	.90	1.25
	31	.0132	.0154	40	46	.55	1.00
	32	.0128	.0158	37	42	.45	.85
	33	.0118	.0168	31	35	.40	.70
	34	.0104	.0182	26	30	.36	.60
	35	.0095	.0191	20	23	.32	.55
	36	.0090	.0196	19	22	.30	.50
	37	.0085	.0201		21		.48
	38	.0080	.0206		19		.45
	39	.0075	.0211		16		.43



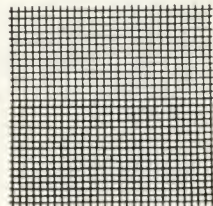
26 Mesh,  
No. 28 .016 Wire



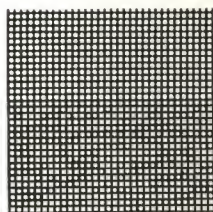
26 Mesh,  
No. 36 .009 Wire



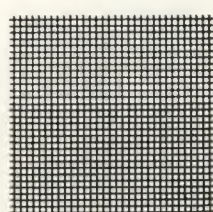
28 Mesh,  
No. 28 .016 Wire



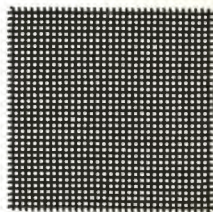
28 Mesh,  
No. 34 .0104 Wire



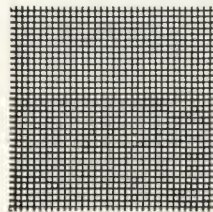
30 Mesh,  
No. 28 .016 Wire



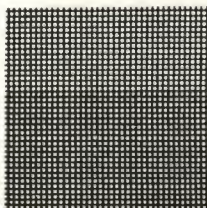
30 Mesh,  
No. 33 .0118 Wire



32 Mesh,  
No. 29 .015 Wire



32 Mesh,  
No. 36 .009 Wire



35 Mesh, No. 29 .015 Wire

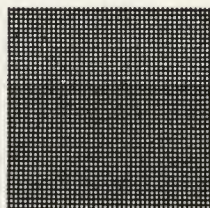




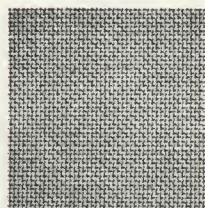
# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



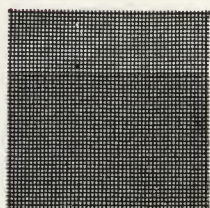
## Double Crimped Wire Cloth (Continued)



40 Mesh,  
No. 31 .0132 Wire



45 Mesh,  
No. 33 .0118 Wire



50 Mesh,  
No. 34 .0104 Wire

We have published in this catalog a comprehensive list of **Wire Cloth and Screens**, among which a specification should be found that will be suitable for almost every conceivable purpose. We are, however, prepared to furnish odd size meshes and special weaves, other than what we list herein. Prices will be quoted on any specification that it is practicable to make.

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 Sq. Ft.		List Price per Square Foot	
				Iron or Steel	Brass, Copper or Bronze	Iron or Steel	Brass, Copper or Bronze
40	31	.0132	.0118	46	52	\$1.00	\$1.50
	32	.0128	.0122	41	47	.90	1.25
	33	.0118	.0132	36	41	.55	1.00
	34	.0104	.0146	30	34	.45	.70
	35	.0095	.0155	24	27	.40	.65
	36	.0090	.0160	22	25	.38	.60
	37	.0085	.0165	20	23	.35	.58
	38	.0080	.0170		21		.55
	39	.0075	.0175		20		.50
45	32	.0128	.0094	46	52	1.30	1.75
	33	.0118	.0104	39	44	1.10	1.50
	34	.0104	.0118	35	40	.90	1.00
	35	.0095	.0127	28	32	.55	.85
	36	.0090	.0132	24	27	.50	.70
	37	.0085	.0137	21	24	.45	.68
	38	.0080	.0142		22		.65
	39	.0075	.0147		21		.55
50	33	.0118	.0082		50		1.60
	34	.0104	.0096	37	42	1.25	1.30
	35	.0095	.0105	30	34	1.00	1.00
	36	.0090	.0110	26	30	.80	.85
	37	.0085	.0115	24	27	.55	.75
	38	.0080	.0120	21	24	.50	.70
	39	.0075	.0125		22		.65
55	35	.0095	.0087			1.30	
	36	.0090	.0092			1.00	1.00
	37	.0085	.0097			.90	.90
	38	.0080	.0102			.70	.80
	39	.0075	.0107				.75
60	35	.0095	.0072			1.50	
	36	.0090	.0077			1.40	1.25
	37	.0085	.0082			1.30	.90
	38	.0080	.0087			1.20	.85
	39	.0075	.0092			1.00	.80
	40	.0070	.0097			.85	.70
	41	.0066	.0100			.75	
64	39	.0075	.0081			1.20	
	40	.0070	.0086			1.10	
	41	.0066	.0091			.85	
70	39	.0075	.0068			1.30	
	40	.0070	.0073			1.20	1.00
	41	.0066	.0077			1.00	
	42	.0062	.0080			.85	
74	40	.0070	.0065			1.30	
	41	.0066	.0069			1.10	
	42	.0062	.0073			.95	
	43	.0060	.0075			.90	
80	40	.0070	.0055			1.90	
	41	.0066	.0059			1.80	
	45	.0055	.0070			1.40	1.25
	46	.0053	.0073			1.30	
	47	.0050	.0075			1.20	
90	42	.0062	.0049			2.00	
	46	.0053	.0059				1.50
	47	.0050	.0061			1.50	
100	50	.0044	.0056				1.75





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO

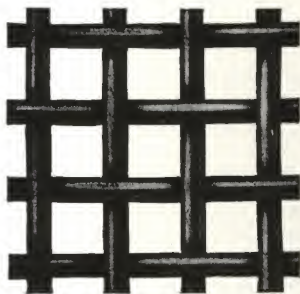


## Locomotive Spark Arrester Cloth

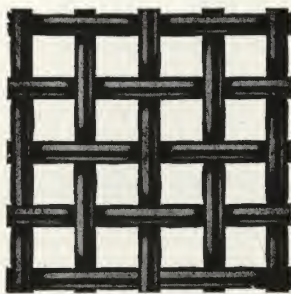
One of our oldest and best-known specialties is spark arrester cloth for use in locomotive smoke stacks.

Every strand is made from steel wire, specially adapted to this use, and so firmly is it crimped in its proper position that it cannot be displaced, consequently there is no abrasive wear which constantly occurs in loosely woven fabrics.

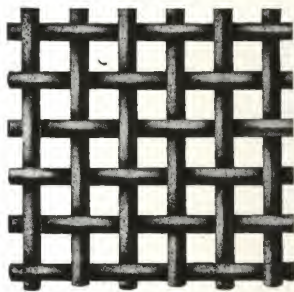
In addition to the grades which appear herewith we can furnish a large variety of square and long meshes from various sizes of wire, and will quote prices on any special items that may be required.



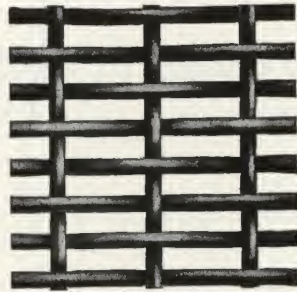
2 1/2 Mesh,  
No. 11 .120 Wire



3 Mesh,  
No. 12 .105 Wire



4 Mesh,  
No. 13 .092 Wire



5 x 2 Mesh,  
No. 14 .080 Wire

## VENTILATOR CLOTH FOR CARS

We can promptly supply the many different kinds of wire cloth used in ventilating passenger, fruit and refrigerator cars, in large or small meshes made from steel, galvanized, brass, bronze or copper, adapted for any service of this character that may be required. As there is no regular standard of mesh and wire used by all railroad companies for these purposes, prices must be based on specifications showing the requirements; and we prefer to have a sample, about two inches square, submitted with requests for quotations when we are not familiar with the kinds used by the customer.

## Railroad and Car Grades Double Crimped Steel Wire Cloth

Including sizes usually used for Locomotive Stack Netting, Double Crimped Steel

Crimped both in warp and filling, preventing wires from displacement and lengthening the service of the goods; combined with this it is evenly woven with uniform meshes.

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	Approximate Weight per 100 sq. ft.	List Price per sq. ft.
2	7	.177	.323	410	\$0.75
	8	.162	.338	350	.60
	9	.148	.352	290	.55
	10	.135	.365	230	.45
	11	.120	.380	190	.40
2 1/2	8	.162	.238	450	.75
	9	.148	.252	370	.60
	10	.135	.265	300	.55
	11	.120	.280	235	.45
	12	.105	.295	180	.38
3	9	.148	.185	445	.75
	10	.135	.198	365	.60
	11	.120	.213	290	.55
	12	.105	.228	220	.45
	13	.092	.241	165	.38
3 1/2	10	.135	.151	420	.75
	11	.120	.166	330	.60
	12	.105	.181	260	.55
	13	.092	.194	195	.45
	14	.080	.206	150	.38
4	15	.072	.214	120	.30
	11	.120	.130	370	.75
	12	.105	.145	295	.60
	13	.092	.158	225	.52
	14	.080	.170	168	.42
5	15	.072	.178	135	.35
	16	.063	.187	100	.27
	13	.092	.108	275	.65
	14	.080	.120	212	.55
	15	.072	.128	168	.50
6	16	.063	.137	130	.40
	17	.054	.146	95	.30
	14	.080	.087	250	.60
	15	.072	.095	200	.55
	16	.063	.104	150	.50
7	17	.054	.113	115	.40
	18	.047	.120	88	.30
	17	.054	.089	135	.50
	18	.047	.096	105	.40
	19	.041	.102	75	.30
8	20	.035	.108	55	.25
	16	.063	.062	200	.60
	17	.054	.071	150	.55
	18	.047	.078	120	.50
	19	.041	.084	90	.40
10	20	.035	.090	65	.30
	21	.032	.093	50	.25
	18	.047	.053	150	.60
	19	.041	.059	110	.55
	20	.035	.065	80	.50
12	21	.032	.068	65	.40
	22	.028	.072	52	.30
	23	.025	.075	40	.25
	19	.041	.042	125	.60
	20	.035	.048	95	.55
	21	.032	.051	78	.50
	22	.028	.055	60	.40
	23	.025	.058	50	.30
	24	.023	.060	40	.25

NO LENGTH LESS THAN 100 LINEAL FEET SHALL BE UNDERSTOOD TO BE A ROLL.





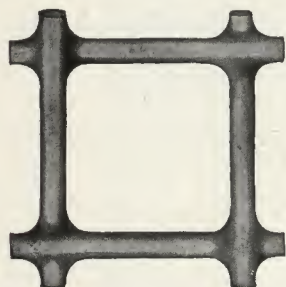
## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



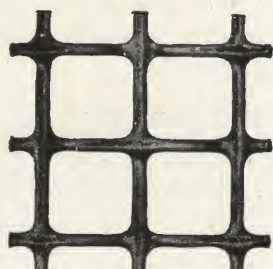
### Galvanized After Woven Wire Cloth

Our Galvanized After Woven Wire Cloth is made of the best steel wire with uniform meshes and thoroughly coated with refined spelter soldering each joint and making the cloth rigid and rust proof.

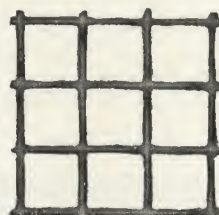
Specially adapted for Church and School Window Guards, Factory Window Guards, Protection of Skylights and Hot House Glass, Covering Ventilators and Air Ducts, Refrigerator Cars, Lining Corn Cribs, Belts in Drying Machines, Evaporating Fruit, Screens for Water Intakes and for all purposes requiring resistance from destructive action of moisture, steam and varying atmospheric conditions.



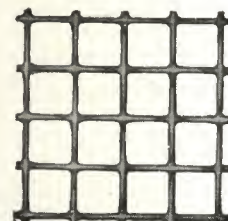
1-in. Mesh, No. 11 .120 Wire



2 Mesh, No. 14 .080 Wire



3 Mesh, No. 18 .047 Wire



4 Mesh, No. 19 .041 Wire

We are prepared to furnish Galvanized After Woven Wire Cloth in all meshes up to and including 8 mesh, and in all widths up to and including 72 inch. Our stock widths are 24 inch, 30 inch, 36 inch, 42 inch and 48 inch.

### Galvanized Before Woven Wire Cloth

When the requirements are for a fabric finer than eight meshes per lineal inch, made from more durable wire than plain steel and not as expensive as brass, copper or bronze, it is customary to use steel wire that has been galvanized before woven, because it is impossible to pass fine mesh cloth through the galvanizing process without clogging many of the meshes with zinc.

In these grades we use the best obtainable steel wire, thoroughly galvanized, and possessing a smoother finish and brighter lustre than the stock which is generally sold as galvanized wire.

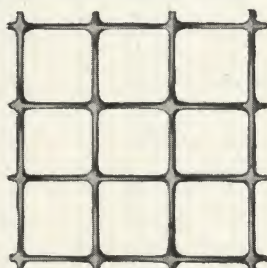
We can furnish this cloth in most of the meshes and wires shown in our general iron or steel list, also any special grades that may be desired.

### Galvanized Hardware or Cellar Window Cloth

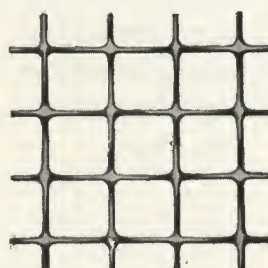
Standard Hardware Cloth, also known as Cellar Window Cloth, is heavily coated with refined spelter after woven, and the grade usually stocked by the Hardware Trade. We carry a large supply in the meshes listed below. Stock widths, 24 inch, 30 inch, 36 inch, 42 inch and 48 inch.



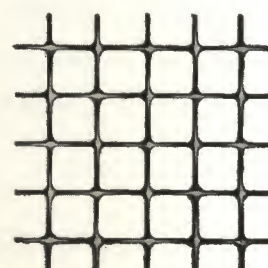
2 x 2 Mesh



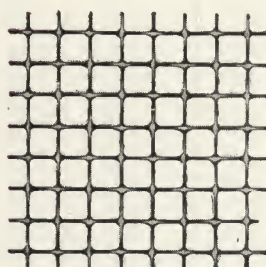
2 1/2 x 2 1/2 Mesh



3 x 3 Mesh

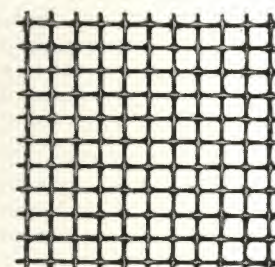


4 x 4 Mesh



6 x 6 Mesh

Mesh	Size Wire	Weight per 100 Sq. Ft.
2 x 2	19	28
2 1/2 x 2 1/2	20	28
3 x 3	21	28
4 x 4	23	28
5 x 5	24	27
6 x 6	25	25
7 x 7	26	25
8 x 8	27	24



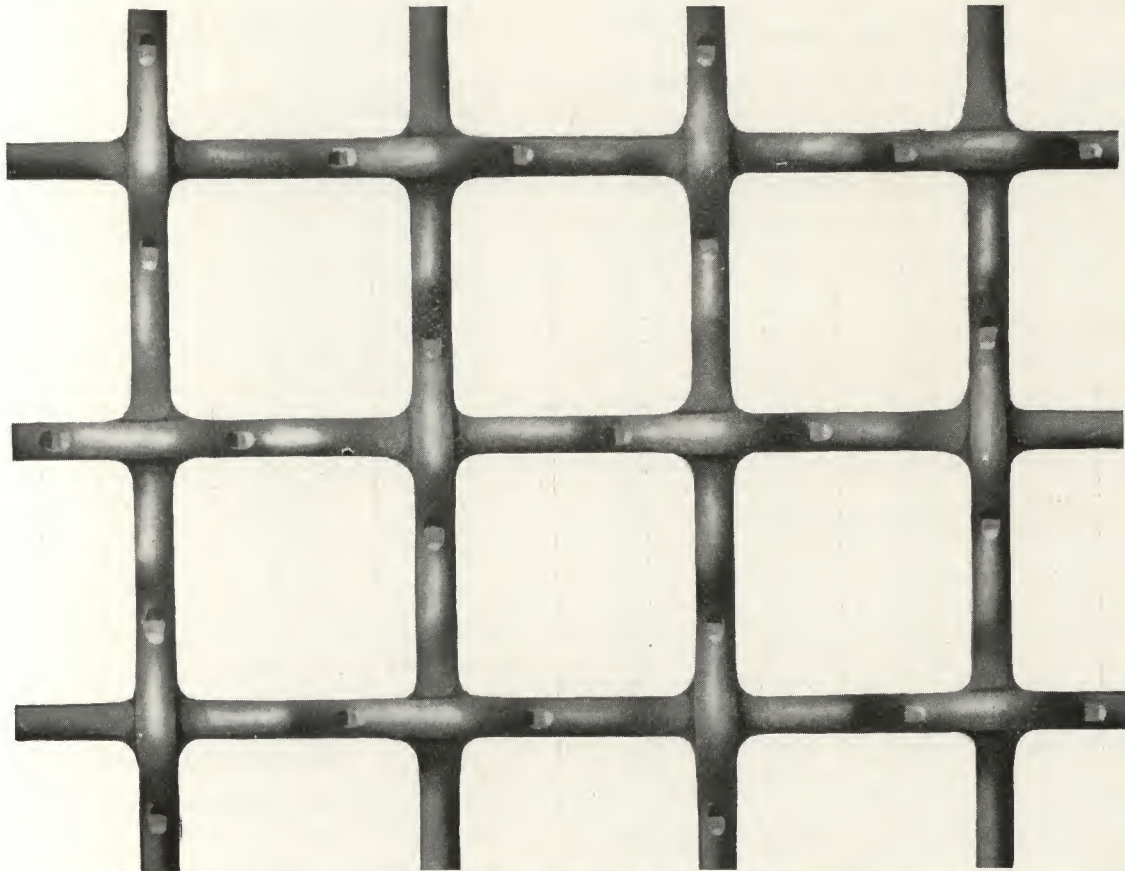
8 x 8 Mesh

THE LIST PRICE FOR GALVANIZED WIRE CLOTH IS THE SAME AS FOR IRON OR STEEL.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



1 1/4" x 1 1/4" Space, .177 Wire, Intermediate Crimp Netting

Made of the Best Grade of Steel Wire of even temper, specially drawn for this particular purpose. Hot Galvanized by thoroughly and smoothly coating with pure spelter after woven and cut to size. Wires knuckled at corners and along sides at intervals to suit any specification. Furnished in sheets true to dimensions and perfectly square.

## Approximate Weight per 100 Square Feet of Popular Grades Galvanized After Woven Wire Cloth

Number of Meshes per Inch	NUMBER OF WIRE (W. & M. GAUGE)																		
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1	162	131	104	81	64	49	42												
¾	209	173	139	110	84	64	54	42											
⅝			172	134	105	80	66	51	39										
2		264	212	165	129	100	82	62	49	38	28								
2½			275	208	160	126	105	81	62	49	38	28							
3				253	194	150	125	96	74	59	44	34	28						
3½						172	133	99	78	68	52	38	34						
4						200	155	121	93	77	59	45	38	32	28				
4½							171	152	102	80	64	48	39	35					
5							192	170	108	92	71	55	47	40	33	27			
6										106	85	63	53	43	38	31	25		
7												66	62	52	47	39	29	25	
8									190	138	110	80	66	57	43	39	32	27	24





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## List Price of Market Grade Brass, Copper or Bronze Wire Cloth

Regular stock width is 36 inches. In some meshes we also stock 24 inches, 30 inches and 48 inches.

Special widths made to order.

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	List Price Per Sq. Ft.
2	16	.063	.437	\$0.65
3	17	.054	.279	.70
4	18	.047	.203	.70
5	19	.041	.159	.70
6	20	.035	.132	.70
8	22	.028	.097	.65
10	23	.025	.075	.65
12	24	.023	.060	.65
14	25	.020	.051	.65
16	26	.018	.0445	.65
18	27	.017	.0386	.60
20	28	.016	.0340	.60
22	29	.015	.0305	.60
24	29	.015	.0267	.65
30	31	.0135	.0201	.70
35	33	.0118	.0168	.70
40	34	.0104	.0146	.70
45	35	.0095	.0127	.85
50	36	.009	.0110	.85
60	38	.008	.0087	.85
70	40	.007	.0073	1.00
80	45	.00575	.0070	1.25
90	46	.00525	.0059	1.50
100	50	.0045	.0056	1.75

## List Price of Tinned Milling Grade Wire Cloth

Regular stock widths are 24 inches, 28 inches and 36 inches.

Special widths made to order.

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	List Price Per Sq. Ft.
2	17	.054	.446	\$0.15
3	19	.041	.292	.16
4	20	.035	.215	.17
5	21	.032	.168	.17
6	22	.028	.139	.18
7	22	.028	.115	.20
8	23	.025	.100	.20
9	24	.023	.088	.20
10	25	.020	.080	.22
12	26	.018	.065	.22
14	27	.017	.054	.25
16	28	.016	.0465	.25
18	29	.015	.0406	.26
20	30	.014	.0360	.28
22	31	.0132	.0323	.30
24	32	.0128	.0289	.35
26	33	.0118	.0267	.35
28	34	.0104	.0253	.38
30	35	.0095	.0238	.40
32	36	.0090	.0223	.40
34	36	.0090	.0204	.45
36	36	.0090	.0188	.45
38	37	.0085	.0178	.50
40	37	.0085	.0165	.55
45	38	.008	.0142	.60
50	39	.0075	.0125	.65
55	40	.007	.0112	.70
60	41	.0065	.0102	.85

## List Price of Extra Fine Mesh Brass or Phosphor Bronze Wire Cloth

Regular stock width is 36 inches.

Special widths made to order.

Number of Meshes per Inch	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	List Price Per Sq. Ft.
110	.0045	.0046	\$ 1.85
120	.0040	.0043	2.00
130	.0038	.0039	2.25
140	.0033	.0038	2.50
150	.0030	.0037	2.75
160	.0028	.0035	3.00
170	.0026	.0033	3.50
180	.0025	.0031	4.00
190	.0024	.0029	4.25
200	.0023	.0027	4.50
220	.0019	.0026	7.50
230	.0018	.00255	8.50
240	.0017	.0025	9.50
250	.0016	.0024	11.00
*260	.0016	.0022	16.00
*270	.0016	.0021	22.00
*280	.0016	.0020	23.00
*300	.0015	.0018	25.00
*325	.0014	.0017	28.00

\* Twilled weave only. The other meshes can be furnished either twilled or plain weave.

## List Price of Market Grade Monel Metal or Nickel Wire Cloth

Regular stock width is 36 inches.

Special widths made to order.

Number of Meshes per Inch	Number of Wire (W. & M. Gauge)	Diameter of Wire, Decimals of Inch	Size of Opening, Decimals of Inch	List Price Per Sq. Ft.
4	18	.047	.203	\$ 1.20
6	19	.041	.126	1.60
8	20	.035	.090	1.85
10	21	.032	.068	1.85
12	22	.028	.055	1.85
14	23	.025	.046	1.85
16	24	.023	.0395	1.65
18	25	.020	.0356	1.60
20	26	.018	.0320	1.50
22	27	.017	.0285	1.40
24	28	.016	.0257	1.40
26	29	.015	.0235	1.30
28	30	.014	.0217	1.30
30	32	.0128	.0205	1.20
40	34	.0104	.0146	1.30
50	36	.0090	.0110	1.60
60	39	.0075	.0092	1.60
70	41	.0066	.0077	1.80
80	43	.0060	.0065	2.00
90	47	.0050	.0061	2.25
100	50	.0044	.0056	2.50
110		.0040	.0051	2.75
120		.0037	.0046	3.00
130		.0034	.0043	3.25
140		.0029	.0042	3.50
150		.0026	.0041	3.75
160		.0025	.0038	4.00
180		.0023	.0033	4.75
200		.0021	.0029	5.75
*250		.0016	.0024	11.00
*300		.0015	.0018	25.00

\* Twilled weave only.

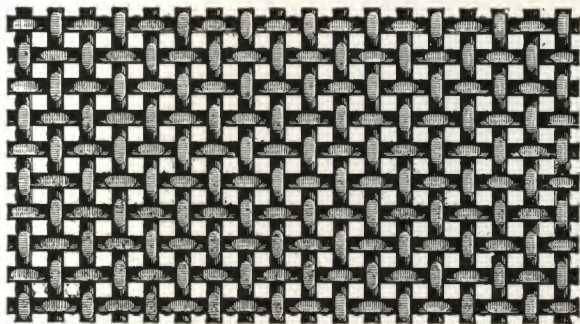




## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



### Malt Kiln Floors



6 Mesh, No. 14 Rolled Steel. For Malt Kiln Floors



7 Mesh, No. 15 Rolled Steel  
Showing manner of joining sheets by Lapping Strip and Rivets

For an economical and perfect Malt Kiln Floor we cannot too strongly recommend our 6 x 6 No. 14 and 7 x 7 No. 15 Steel Rolled Wire Cloths, which are especially adapted to the requirements of malsters.

These cloths are woven on powerful looms which thoroughly crimp the wires at their intersections, and they are then passed between heavy steel rolls which flatten the fabrics on both sides, giving them a smooth and unobstructed surface which facilitates shoveling the grain loaded upon them.

The 7 mesh cloth presents over 7,000 holes per square foot, through which the heat passes to the grain, these representing 50 per cent of the entire surface, a result not attained by any other style of floor.

This large percentage of drying surface makes a saving of about one-half of the fuel required in the old process, and improves the quality of the malt, giving a paler beer than is obtained by any other mode of preparation.

### Mining or Battery Wire Cloth

In none of its varied uses is wire cloth subjected to more severe tests than in mining screens, and in no other grades are the skill and mechanical facilities of the manufacturer so plainly shown.

Perfect mining cloth must be made from wire selected for its fitness for the special work required of it, and be woven on looms having the requisite power to crimp or lock it into the desired mesh, preventing displacement and consequent loss of screening efficiency.

### Dynamo Brush Copper Cloth

Copper cloth woven to meet the peculiar requirements for brushes of electric dynamos can be furnished in size of mesh and gauge of wire required and various widths. Prices upon receipt of specifications.

### Brass Milk Strainer Cloth

Brass strainer cloth is carried in stock in 40, 50 and 60 mesh and can be furnished in rolls 5 feet long by 12 inches wide; also in rolls of 100 lineal feet, 36 inches wide.

### Cement Cloth

In the manufacture of cement it is essential that the wire cloth used in grading it be firmly and accurately woven to insure uniformity in the size of its particles.

This result is accomplished with our special brand, which is woven on powerful and accurately adjusted looms designed to crimp and lock each wire in its proper place.

For this purpose we use a tough and ductile grade of wire which is specially adapted to the requirements, made from steel or other metal as desired, and the grades are generally close to the heaviest that can be made in any particular mesh. To insure duplication of the mesh which is giving satisfactory grading of the cement, we prefer to have a sample, about two inches square, submitted with requests for quotations when we are not familiar with the requirements of our correspondent.

### Tinned Wire Cloth

Our tinned cloth is made from a special grade of steel wire thoroughly coated, before woven, with pure tin which protects it from corrosion, and provides a polished surface which prevents clogging of the meshes, thereby insuring the maximum screening capacity when used for bolting flour, meal, etc.

Cloth which is to be used for such purpose must be firmly and accurately woven to insure uniformity in the size of the screened material. In addition to the Tinned Milling Grade, (which we list on page 72), our long experience and unexcelled manufacturing facilities enable us to produce it in any size of mesh or wire shown in our general iron or steel list or in special grades that may be required.

Tinned cloth is extensively used in flour sifters, tea and coffee strainers and other household utensils; and some of the coarse grades are specially adapted for conveyor belts in textile machines which require a smooth surface to prevent clogging of the fabric by the material which it has to convey.

### Special Metals

German Silver, Nickel, Monel Metal, Aluminum, American Ingot Iron (Armco) and Phosphor Bronze Wire Cloth.

In addition to the regular grades of Steel, Brass, Copper and Bronze Wire Cloth listed in this catalog, we are prepared to furnish Wire Cloth and Screens from any metal commercially obtainable in the form of wire.

Prices quoted on receipt of specification giving size of mesh and wire, and length and width wanted.

### Bran Duster Cloth

This grade of wire cloth, extensively used in flour mills, is made of the best quality steel wire, which is blued by a special heating process to prevent rust. We can furnish it in the different meshes generally used. Prices will be quoted on receipt of specifications or from samples submitted.

### Rice Cloth

Made with accurate meshes, special care in crimping wires and selected stock. The use of wire cloth for this purpose is not limited to any special sizes. Prices on receipt of specifications.

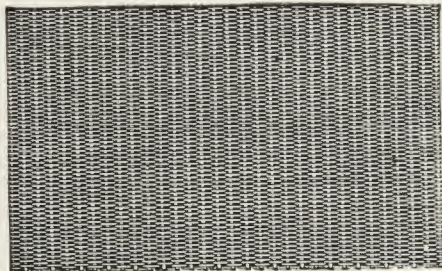




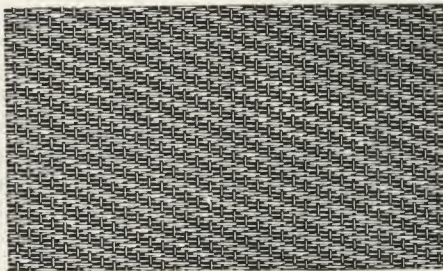
## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



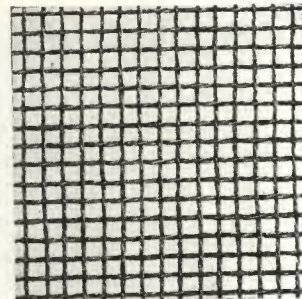
### Special Weaves



14 x 85 Mesh, Nos. 27/32, Dutch Weave



16 x 40 Mesh Nos. 28/27, Dutch Twilled Weave



10 Mesh, No. 32 .0128 Wire.  
3-Ply Cabled Warp and Filling

### Filter Cloth

For filtering water and other liquids requiring the exclusion of minute particles of foreign matter, the special weaves illustrated above are admirably adapted, as they permit the use of larger wire and closer spacing of same than any other style of weaving, and offer the maximum resistance to heavy hydraulic pressure and wear.

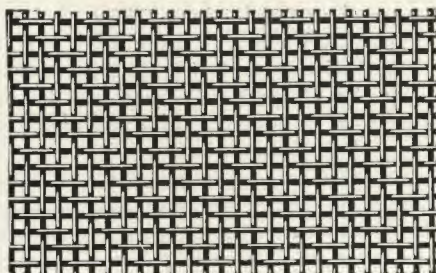
In these fabrics, which are sometimes described as "Dutch weave," the filling wires are slightly flattened by being forced and held in close contact with each other, thus the resulting mesh, in this member, is the smallest that can be produced.

For some kinds of work it is desirable to use this type of cloth made from copper wire thoroughly plated with pure tin before woven, and we can supply such grades in plain or twilled Dutch weave as may be required for filters, centrifugal machines, etc.

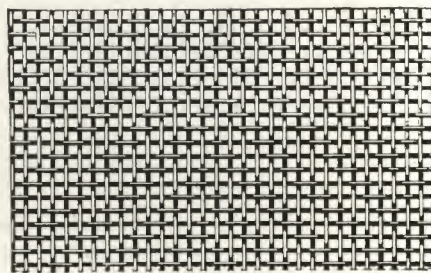
We can also supply for this purpose square mesh fabrics, in plain or twilled weave, from plain or tinned copper or other kinds of wire, in many different grades.

### Cabled Weave

The warp and filling members of this style are composed of two or more strands cabled or twisted together before woven. If desired, either warp or filling can be of single strands of approximately the same diameter as the cable used in the other member of the cloth, in which case the weaving would be designated "half cabled."



12 Mesh, No. 22 .028 Wire  
Twilled Weave



14 Mesh, No. 24 .023 Wire  
Twilled Weave "Herringbone" Pattern

### Twilled Weave

In this style every wire passes alternately over and under two strands instead of one at its crossing points with wires running at right angles to it, which gives the cloth the appearance of having oblique lines or ridges. These lines can be run obliquely in one direction across the entire width of the cloth, or be stopped at any desired point and then run at right angles for an equal distance, thus producing a stripe or herringbone effect, hence the designation "herringbone weave" which is sometimes applied to it.

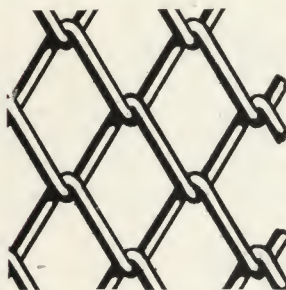
### Spiral Wire Conveyor Belts

The cuts opposite illustrate a special weave designed for conveyor belts in washing and drying machines used in the textile and other industries.

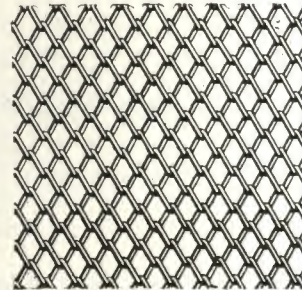
It will be noted that these belts possess much greater longitudinal flexibility than wire cloth woven in the usual manner, and for this reason cling closer to small or large diameter conveying pulleys of the machine, and can be operated at higher speeds than any other kind of wire fabric.

They have been thoroughly tested for many years in machines used in conveying cotton, wool, tobacco, sugar cane, fruit, etc., and have satisfactorily fulfilled the requirements of these industries.

We can furnish these fabrics in meshes from 1/14 inch to 6 inch in any required size or kind of wire, and in any length and width suitable for conveying many different kinds of material.



2 Mesh, No. 15 .072 Wire  
Spiral Wire



8 Mesh, No. 22 .028 Wire  
Spiral Wire

**WE MAKE OTHER SPECIALS TO ORDER AND SHALL BE GLAD TO QUOTE PRICE AND DELIVERY ON RECEIPT OF SPECIFICATIONS.**



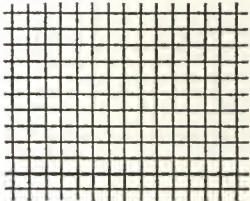


# F.P. SMITH WIRE AND IRON WORKS, CHICAGO

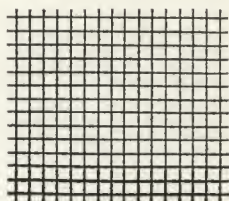


## Window Screen Cloth

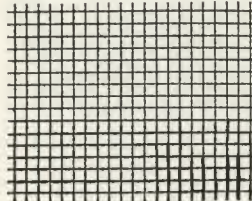
### Standard Meshes



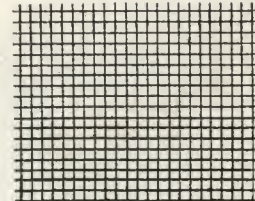
12-Mesh  
Painted .0118 wire  
Galvanized .0118 wire



14-Mesh  
Painted .0118 wire  
Galvanized .0118 wire  
Bronze .01175 wire



16-Mesh  
Painted .0118 wire  
Galvanized .0118 wire  
Bronze .01125 wire



18-Mesh  
Painted .0118 wire  
Galvanized .0118 wire  
Bronze .01125 wire

**PAINTED.** Special attention is given to our painting. Not only the quality of the mixture, but our methods of application have been improved from year to year, and our painted cloth is recognized as second to none in quality. A thick elastic non porous coating of paint is applied to the cloth, and there is a good bead where the wires cross, the cloth being dried in the paint tower at a very high temperature.

**GALVANIZED.** This grade is heavily electro-zinc-coated after woven by our modern electric process. After this the cloth receives a covering of transparent varnish

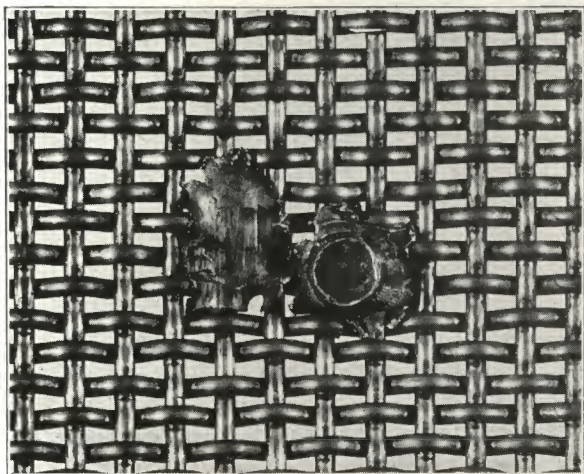
which is baked on. Our Galvanized is firm, durable and attractive. Being galvanized after woven, the zinc tends to bind the wires together.

**BRONZE.** Our Bronze is produced of wire 90% pure Lake Superior Copper and 10% zinc. It is made in two colors, bright and antique. If screens are wired with our Bronze and properly cared for, they should last as long as the frames which hold them. On account of its greater durability and firmness, it is superior to so-called "pure" copper grades which can usually be purchased at a lower price.

## Wire Cloth Table Showing Square Feet in Various Widths and Lengths

Length-	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
1-Foot	1½	1¾	1⅝	2	2½	2½	2½	2½	2½	3	3½	3½	3½	3½	3½	4
2 "	3	3¾	3¾	4	4½	4½	4½	4½	4½	6	6½	6½	6½	6½	6½	8
3 "	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	10½	11	11½	12
4 "	6	6¾	7½	8	8½	9½	10	10½	11½	12	12½	13½	14	14½	15½	16
5 "	7½	8½	9½	10	10½	11½	12½	13½	14½	15	15½	16½	17½	18½	19½	20
6 "	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
7 "	10½	11½	12½	14	15½	16½	17½	18½	19½	21	22½	23½	24½	25½	26½	28
8 "	12	13½	14½	16	17½	18½	20	21½	22½	24	25½	26½	28	29½	30½	32
9 "	13½	15	16½	18	19½	21	22½	24	25½	27	28½	30	31½	33	34½	36
10 "	15	16½	18½	20	21½	23½	25	26½	28½	30	31½	33½	35	36½	38½	40
20 "	30	33½	36½	40	43½	46½	50	53½	56½	60	63½	66½	70	73½	76½	80
30 "	45	50	55	60	75	70	75	80	85	90	95	100	105	110	115	120
40 "	60	66½	73½	80	86½	93½	100	106½	113½	120	126½	133½	140	146½	153½	160
50 "	75	83½	91½	100	108½	116½	125	133½	141½	150	158½	166½	175	183½	191½	200
100 "	150	166½	183½	200	216½	233½	250	266½	283½	300	316½	333½	350	366½	383½	400

## Bullet Resisting Wire Cloth



For Banks, Cashier Cages and Pay Offices, to resist the bullets of gunmen. Made from a special extra tough heavy wire in a close mesh. Illustration shows how two bullets from a .38 calibre gun were effectively stopped.

Can be furnished in sheets of any size required or framed with steel angle.

Mention quantity required when inquiring for prices.

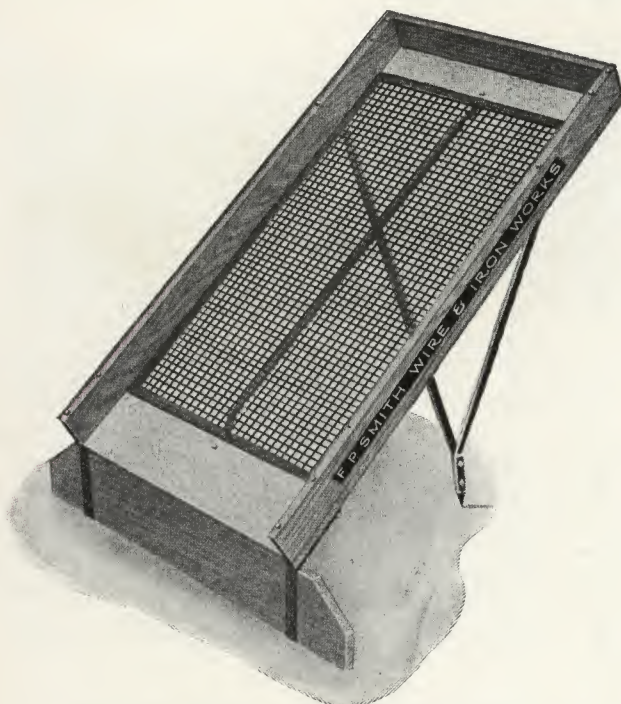




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO

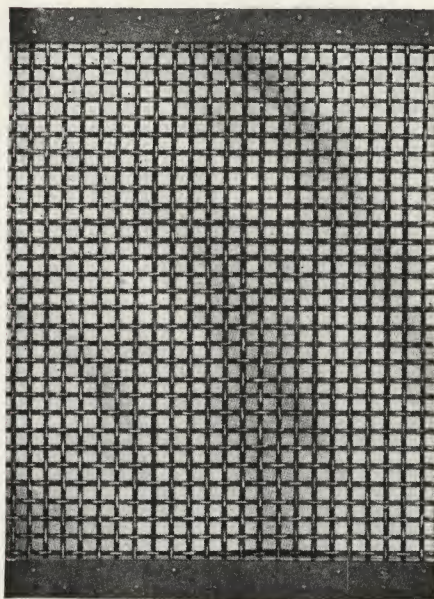


## Heavy Steel Wire Coal Screens



No. 61 COAL SCREEN  
With Foot Board and Hinged Leg

### Coal Screen Bottom With Ends Bound



No. 90 Screen Bottom  
LIST PRICE, EACH

	Painted	Galv'd.
24x30 ins. ....	\$3.50	\$4.65
24x36 ins. ....	4.00	5.30
24x48 ins. ....	5.00	6.50
24x60 ins. ....	6.00	7.80

1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 2 inch space carried in stock.

LIST PRICE, EACH

	Painted	Galv'd.
30x30 ins. ....	\$4.00	\$5.40
30x36 ins. ....	4.75	6.35
30x48 ins. ....	6.00	7.90
30x60 ins. ....	7.25	9.50

Our Coal Screens are constructed of ash frames firmly bolted together, with galvanized steel strips fitted at top and bottom to minimize wear. Screen Cloth is of extra heavy gauge hard wire which is double crimped. Larger sizes of space have an Extra Crimp Between the Wires to prevent them from spreading. Screen Cloth is securely fastened in, and screens 30 inches or more in width have a bar through center to reinforce them and prevent wire from sagging.

#### No. 61 Coal Screen

Steel Leg on this screen is hinged and can be set to give screen desired pitch. Foot board is extra wide to prevent sized coal and screenings from mixing and being 10 inches high allows considerable coal to be screened without banking up onto wire.

#### No. 61 Coal Screen—Stock Sizes

24x60 inches (1/4 to 2 inch space).....	each, \$21.60
24x72 inches (1/4 to 2 inch space).....	each, 24.50
30x60 inches (1/4 to 2 inch space).....	each, 24.50
30x72 inches (1/4 to 2 inch space).....	each, 27.40

#### No. 60 Coal Screen

This screen is identical with our No. 61 screen, except the foot board and hinged leg are omitted.

#### No. 60 Coal Screen—Stock Sizes

24x60 inches (1/4 to 2 inch space).....	each, \$17.30
24x72 inches (1/4 to 2 inch space).....	each, 20.20
30x60 inches (1/4 to 2 inch space).....	each, 20.20
30x72 inches (1/4 to 2 inch space).....	each, 23.00

1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2 2 inch space carried in stock. 30-inch screens have bar through center to prevent wire from sagging.

The sizes of space given mean the clear opening between wires. (Refer to page 55.)

In ordering, be sure to state what size space is wanted in the wire screen.

For prices on coal screen cloth only, refer to pages 60 and 61.

## Extra Heavy Foundry Riddles

Our Screen Bottoms are made of screen cloth of the same high grade and weight used in our coal screens with heavy sheets of steel folded over and riveted to the ends.

The Galvanized Screen Bottoms are hot-galvanized after made. This gives them a rust-proof coating and solders all parts and intersecting wires together, thus adding rigidity and life to the screen.



	Stock Meshes	Diameter	Price per doz.
STEEL	2 to 12	18 inches	\$16.50
GALVANIZED	2 to 8	18 inches	18.00
BRASS	2 to 20	18 inches	28.50

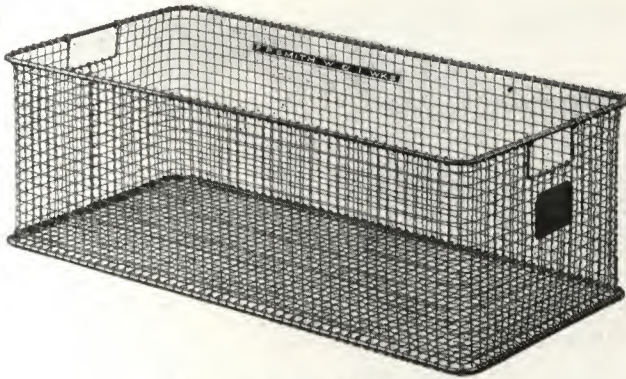
All of our foundry riddles are made with 4 cross bars and with a liner inside the rim, supporting the wire cloth and preventing it from pulling out or sagging.

Other Meshes and Sizes made to order. One-half Dozen in a Bundle.





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



**No. 11 WIRE BASSINETTE**

Length, 28 inches; width, 14 inches; depth, 9 inches.

Price .....each, **\$6.00**

Our Bassinettes are neatly and durably constructed of intermediate crimp wire fabric with round steel frame, heavily tin plated after made. They are equipped with hand holes and a holder for name card.

Hospital superintendents highly commend them for their sanitary feature and permanency.

Special sizes made to order.

We manufacture to order Wire Baskets of various descriptions for individual requirements from steel, galvanized, tinned, brass, copper, bronze, aluminum and monel metal wire in fine and coarse meshes.

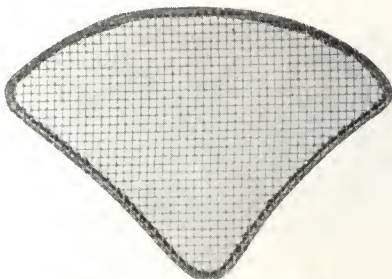
Prices quoted on receipt of specifications, and mention quantity.



**No. 16 WASTE SINK BASKET**

Baskets of this type are a necessity for waste sinks to prevent the waste pipes from being clogged.

They are substantially constructed of 6 mesh, heavy steel wire cloth with round steel frame, well reinforced throughout and heavily tin plated after made. Equipped with handles as shown and with feet on bottom; also with hooks to rest over rim of sink. Prices on application.



**No. 21 URINAL SCREEN**

Our Urinal Screens are made of 8 mesh, galvanized after woven wire cloth (rust-proof), with galvanized round steel frame.

Price .....each, **\$2.50**

When ordering, send full size drawing or template to give exact size and shape.

## Conductor Strainers

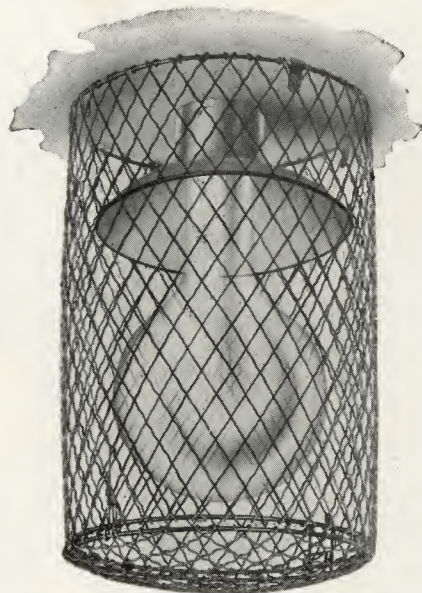
To Keep Leaves and Bird Nests out of Rain Water Pipes

### LIST PRICE

	Galvanized Steel Wire	Copper Wire
2 in., per doz.	\$2.25	\$ 5.40
3 in., per doz.	3.15	8.70
4 in., per doz.	4.50	12.60
5 in., per doz.	7.65	21.60
6 in., per doz.	9.00	24.75
8 in., per doz.	31.50	—

The copper strainers are made of pure copper wire and the steel strainers are galvanized after made, soldering all joints together, preventing them from rusting.

Strainers of extra heavy construction and other sizes made to order.



**No. 7 ELECTRIC LIGHT GUARD**

Our Crimped Wire Guards afford the most substantial and satisfactory protection of lights in gymnasiums, hand ball courts, etc. Made of heavy steel wire, 1 1/4 diamond mesh, with round steel frame, heavily tin plated after made.

They are equipped with small steel straps to fasten to ceiling and bottom is arranged to open on hinges to permit easy access, when necessary to clean or replace a light.

Made in any size required. When writing for prices or ordering, specify diameter and depth.



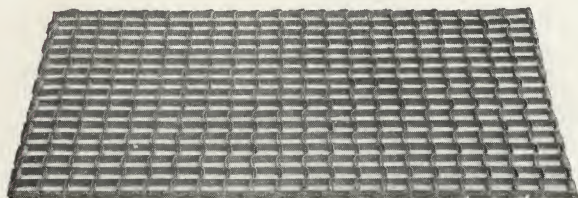


**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Flexible Flat Steel Mats, Galvanized

Stock Sizes



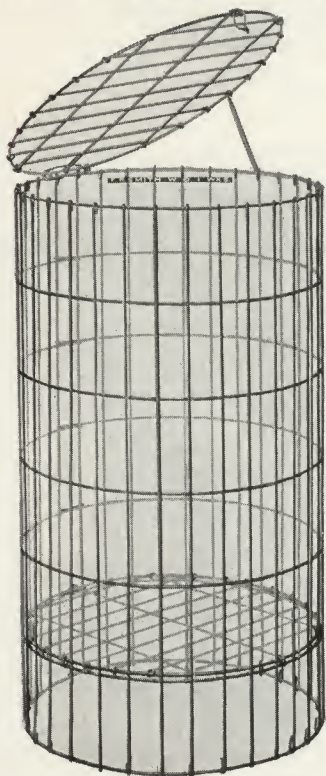
		List Price
		Each
No. 10	16x24 in.....	\$ 2.05
No. 11	18x30 in.....	2.70
No. 12	22x36 in.....	3.75
No. 13	24½x42 in.....	4.80
No. 14	30x48 in.....	7.00
No. 15	36x54 in.....	9.25
No. 16	36x60 in.....	10.60
No. 17	40x72 in.....	13.85
No. 18	40x80 in.....	14.65

Special sizes and irregular shapes made to order.

Our Flexible Flat Steel Mats are made of the best grade of galvanized ribbon steel, with a square mesh. They are made with one continuous crimp across the mat with no short pieces to come apart. They roll up like cloth, are flexible both ways and fit uneven floors. They always lay flat and clean themselves in rolling up.

One hundred foot rolls, 24 inches, 30 inches and 36 inches wide, carried in stock, from which are made complete mats of any length. Per square foot .....\$0.70

## Rubbish Burner and Park Basket



No. 10 Rubbish Burner. Height, 36 inches; diameter, 24 inches.  
Price .....each, \$10.00

Made of heavy galvanized wire, electrically welded at intersections, with hinged cover. Over the galvanized finish it is dip coated with the best green mineral paint. The extra large size makes it an ideal basket for public parks and play grounds.

## Dipping Baskets

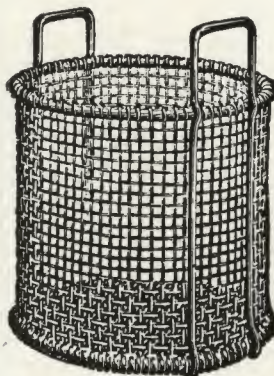
We are prepared to manufacture Dipping Baskets of any size mesh and wire, or shape that it is practicable to make, of steel, galvanized steel, brass, copper, aluminum, monel metal and other metals. When writing for prices or ordering be particular to state the style, dimensions (whether inside or outside measure), size of mesh and wire, or space and kind of metal. If wanted with handles, state style and height of handle. Also state number of each kind wanted.



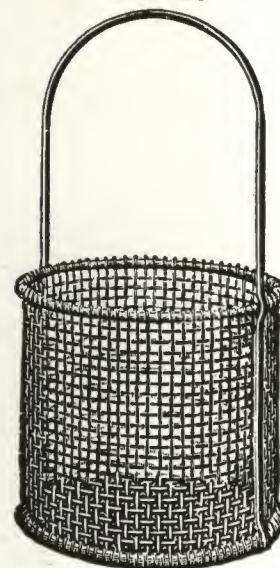
No. 50



No. 120



No. 40



No. 110





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Wire Flower Pot Stands

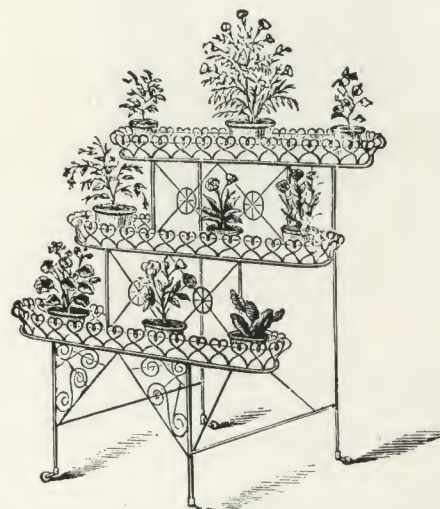


No. 10, With Arch and Basket.....\$25.00

No. 11, Without Arch and Basket..... 22.00

Semicircular; 4 feet wide, 30 inches deep, 6 feet high; without arch, 3 feet, 3 inches high; painted black.

Back into vogue have come these old-fashioned stands. They now grace the porches, entrance halls and conservatories of smart homes and clubs. Substantial and attractive, they are a welcome addition to sophisticated interior decoration.

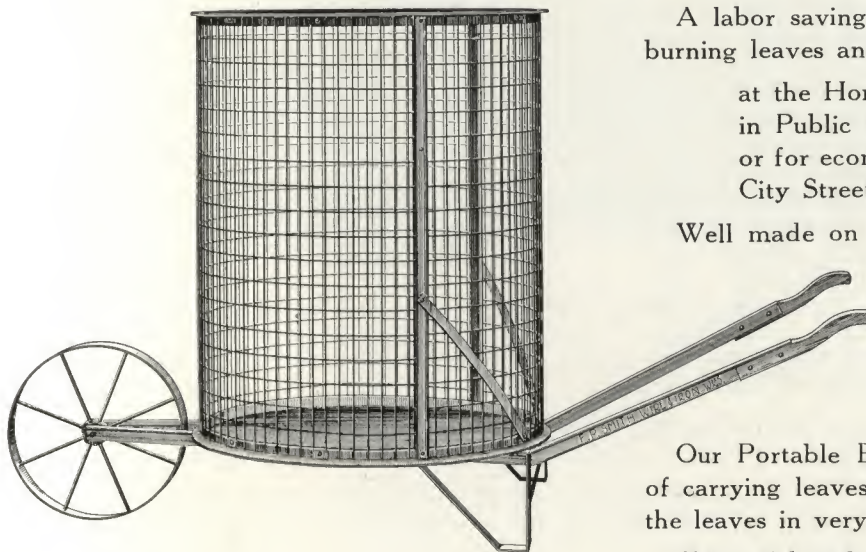


No. 12, Without Arch and Basket.....\$21.00

No. 13, With Arch and Basket..... 24.00

Square; shelves 9 inches, 8 inches and 7½ inches wide respectively, all 36 inches long; stand 3 feet high; with arch, 6 feet high; painted black.

## No. 22 Portable Burner



Diameter of Fire Drum..... 2'-6"  
Height of Fire Drum..... 3'-0"  
PRICE .....Each, \$12.00

LARGER SIZES MADE TO ORDER.

A labor saving piece of equipment for conveniently burning leaves and rubbish

at the Home or Estate  
in Public Parks  
or for economically disposing of rubbish in  
City Streets.

Well made on the principle of a wheelbarrow, with reinforced basket of close mesh welded galvanized fabric.

Leaves and rubbish burn much more quickly in a mounted burner than on the ground.

Our Portable Burner avoids the slow, tedious work of carrying leaves to a bonfire. The fire is brought to the leaves in very much less time and much less effort.

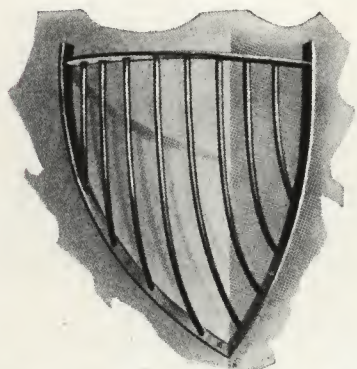
Shipped knocked down, but easy to assemble.

**DISCOUNT TO THE TRADE**





## Stable Fittings



**Wrought Iron Corner Hay Rack**

Heavy  $\frac{1}{2}$  inch Rods

No. 8. Price .....each, \$15.00

Size, projects 24 inches from corner, 35 inches high. Suitable for either side of stall.

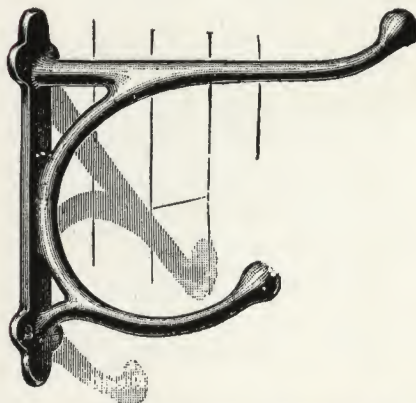


**Corner Manger**

With roll flange to prevent waste of food.

No. 4. Size, 16x16x9 inches deep.  
Japanned Galvanized  
Price .....each, \$5.80      \$9.00

No. 5. Size, 17x17x10 inches deep.  
Japanned Galvanized  
Price .....each, \$6.10      \$9.75



**No. 24 Extra Heavy Harness Hook**

Top hook, 12 inches; lower hook, 8 inches.

Price, japanned .....each, \$2.00



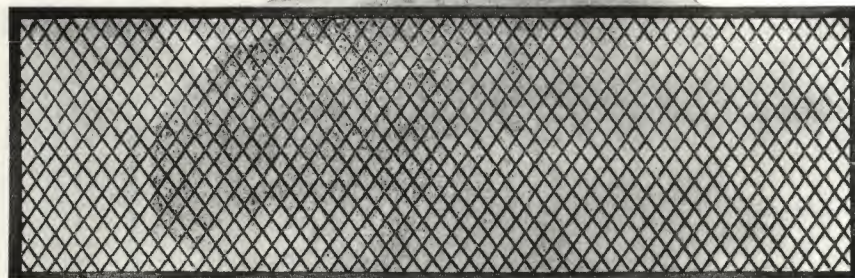
**No. 12 Heavy Crimped Wire Stall Guard or Partition**

$2\frac{3}{4}$  inch diamond mesh, No. 7 Wire, with 1 inch by  $\frac{1}{2}$  inch channel steel frame, banded top, screw holes bottom and end.

### List Price Each

6	feet long x 2 feet high .....	\$12.00
$6\frac{1}{2}$	feet long x 2 feet high .....	13.00
7	feet long x 2 feet high .....	14.00
8	feet long x 2 feet high .....	16.00

The above sizes are carried in stock.



**No. 14 Heavy Crimped Wire Box Stall Guard or Partition**

Same material as No. 12 stall guard. Banded top, screw holes bottom and ends.

Box Stall Guards, or special lengths and heights, square or curved ends, per square foot (2 ft. high or over) .....\$1.00

The Box Stall Work is usually made the same style and height as the No. 12 Stall Partitions. If wanted with feeding door, an extra charge is made.

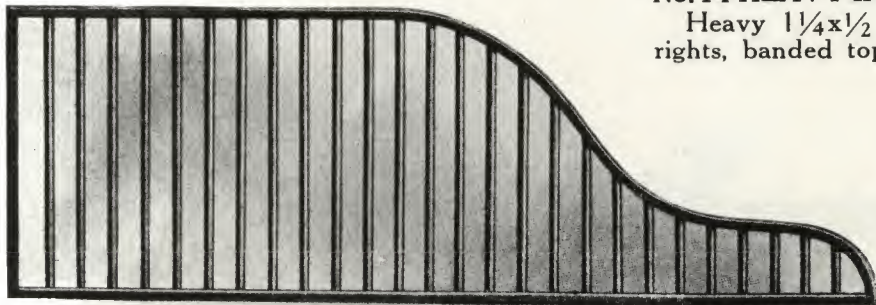
Painted by our dipping process, preventing rust, usually Dark Green. Other colors to order.

We manufacture a complete line of stable fittings. Special Catalog mailed on request.





## Stable Fittings (Continued)



No. 14

### No. 14 HEAVY IRON STALL GUARD OR PARTITION

Heavy  $1\frac{1}{4} \times \frac{1}{2}$  inch frame, with  $\frac{1}{2}$  inch round up-rights, banded top, screw holes bottom and end.

#### List Price, Each

6	ft. long x 2 ft. high....	\$21.00
6 $\frac{1}{2}$	ft. long x 2 ft. high....	22.75
7	ft. long x 2 ft. high....	24.50
8	ft. long x 2 ft. high....	28.00

The above sizes are carried in stock. Special lengths and heights (2 ft. high or over), with curved or square end to order, per square foot, \$1.75.

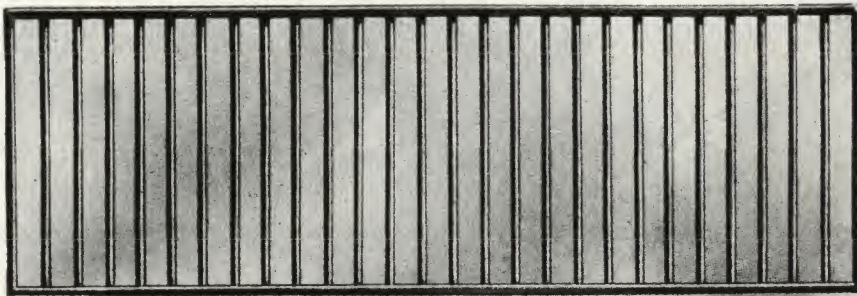
Painted by our dipping process, preventing rust, usually graphite, unless otherwise ordered.

### No. 5 Heavy Iron Stall Guard or Partition

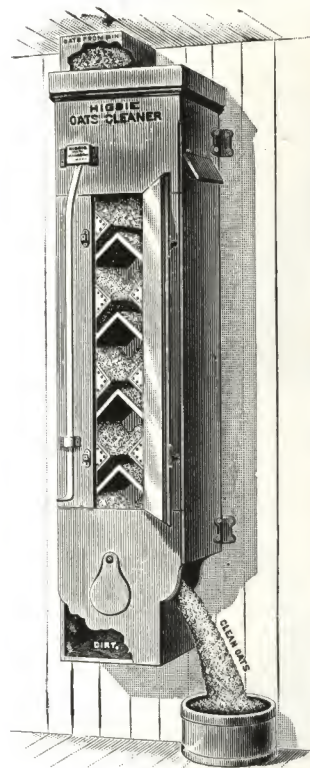
#### For Box Stall

Same material as No. 14 Stall Guard. Banded top, screw holes bottom and ends. Any size to order (2 ft. high or over), per square foot, \$1.75.

The Box Stall Work is usually made the same style and height as the No. 14 Stall Guards. If wanted with feeding door an extra charge is made.



No. 5



Higbie Patent Self-Acting Oats Cleaner

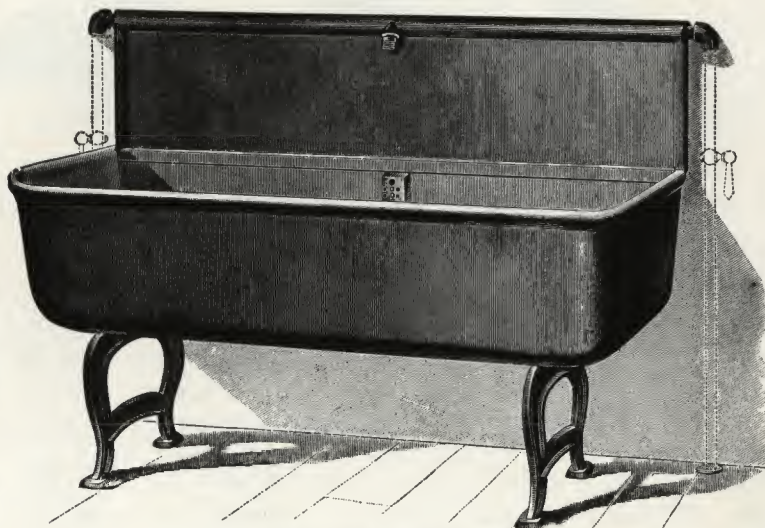
No. 95. Small Stables. 1 to 15 horses. Each ..... \$60.00  
8 $\frac{1}{2}$  x 15 in., 6 $\frac{1}{2}$  ft. long. Cap.  $\frac{1}{2}$  bu. per min.

No. 96. Medium Stables. 15 to 50 Horses, each \$65.00  
11 x 16 in., 6 $\frac{1}{2}$  ft. long. Cap. 1 bu. per min.

Larger sizes made to order. Carried in stock only in right hand discharge when facing the cleaner.

Built of kiln dried whitewood, bronzed trimmings, highly finished and varnished.

THIS CLEANER will remove a bushel of Dirt, Dust and Impurities from every 25 to 30 bushels of best Oats. Not one quart of Oats can be drawn without being cleaned. It prevents sickness among horses. Saves Money, Time and Trouble.



#### Improved Water Trough

	Plain	Galv'd.
No. 26, 30 in. long, 19 in. wide, 12 in. deep, each	\$44.00	\$61.00
No. 27, 36 in. long, 19 in. wide, 12 in. deep, each	53.00	73.00
No. 28, 42 in. long, 19 in. wide, 12 in. deep, each	58.00	80.00
No. 29, 48 in. long, 19 in. wide, 12 in. deep, each	63.00	87.00

The above Troughs are furnished with Patent Overflow, Pipe, Nickel Plated Hose Nozzle, Plug and Chain complete. Can be furnished without either iron back or iron legs, if desired, at reduced cost.

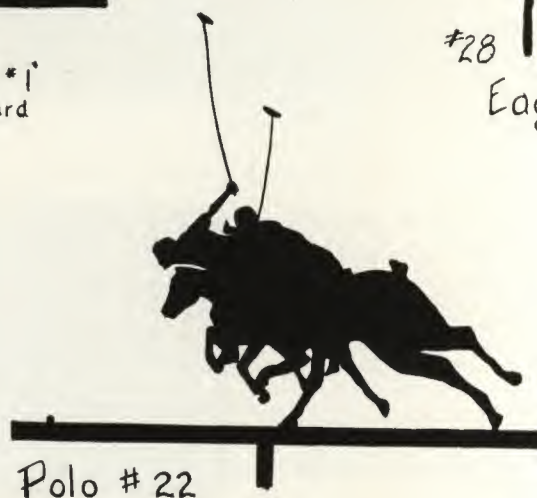




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Copper Silhouette Weather Vanes



These Vanes hold their natural burnished copper color for several years then gradually change to a grey green.

	18" Spread	36" Spread
No. 1.....	\$38.50	\$71.50
No. 4.....	38.50	71.50
No. 7.....	38.50	71.50
No. 20.....	38.50	71.50
No. 22.....	38.50	71.50
No. 28.....	33.00	60.50
No. 30.....	36.00	66.00

Prices include Vane, post, bronze ball bearing and N and S directional pointers.

ADDITIONAL DESIGNS WILL BE SENT UPON REQUEST



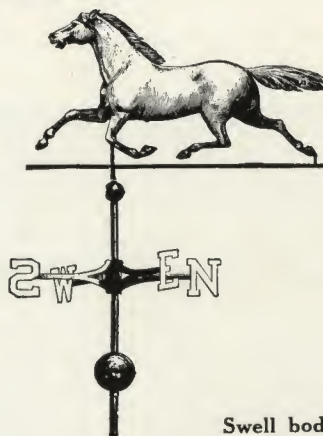
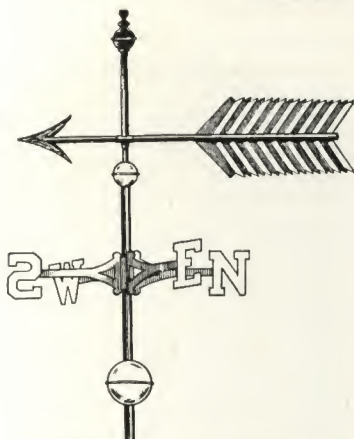




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



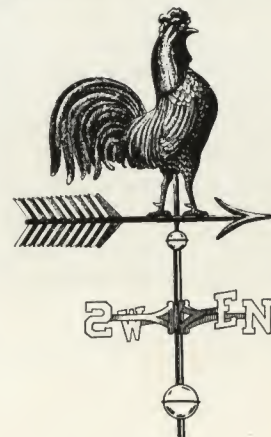
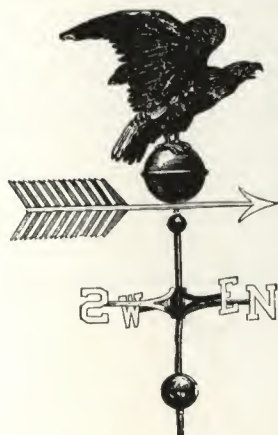
## Copper Weather Vanes



Swell bodied

No. 11	1'0" long	\$ 9.00	No. 17	3'6" long	\$ 34.50	No. 140	25" long	\$ 28.50
No. 12	1'3" long	12.00	No. 18	4'0" long	37.50	No. 141	26" long	33.00
No. 13	1'6" long	15.00	No. 19	5'0" long	57.00	No. 142	31" long	37.50
No. 14	2'0" long	18.00	No. 20	6'0" long	94.50	No. 143	34" long	49.50
No. 15	2'6" long	24.00	No. 20A	7'0" long	135.00	No. 144	48" long	142.50
No. 16	3'0" long	28.50	No. 20B	8'0" long	187.50			

All our Vanes are made entirely of copper and brass. The balls are of copper, the points of compass cast iron, and the upright rod of wrought iron with steel spindle on which the Vane revolves. The Vane, itself, the balls and the letters of the points of compass are gilded with 22 karat gold leaf. All other parts are well painted.



Spread					
No. 70	8"	\$15.00	\$12.00	No. 169	14 inches high with 18-in. arrow. \$22.50
No. 70A	1'0"	21.00	16.50	No. 170	18 inches high with 24-in. arrow. 30.00
No. 71	1'3"	28.50	22.50	No. 171	24 inches high with 30-in. arrow. 49.50
No. 72	1'6"	40.50	28.50	No. 172	28 inches high with 36-in. arrow. 75.00
No. 73	2'0"	48.00	37.50	No. 173	36 inches high with 48-in. arrow. 94.50
No. 74	2'6"	67.50	57.00	No. 174	18 inches high without arrow. . . . 22.50
No. 75	3'0"	85.50	69.00	No. 175	24 inches high without arrow. . . . 30.00
No. 76	3'6"	94.50	75.00	No. 176	28 inches high without arrow. . . . 52.50
No. 77	4'0"	135.00	112.50	No. 177	36 inches high without arrow. . . . 75.00
No. 78	4'6"	187.50	132.00		
No. 79	5'0"	255.00	210.00		
No. 80	5'6"	285.00	232.50		
No. 81	6'6"	345.00	282.00		

All Rooster Weather Vanes Are Swell Bodied

All Eagle Weather Vanes are full bodied. Arrows are indispensable when Eagles are used for Vanes. The second column above gives the prices for Eagle only on Ball and Rod, for Flag Poles.

ADDITIONAL DESIGNS WILL BE SENT UPON REQUEST

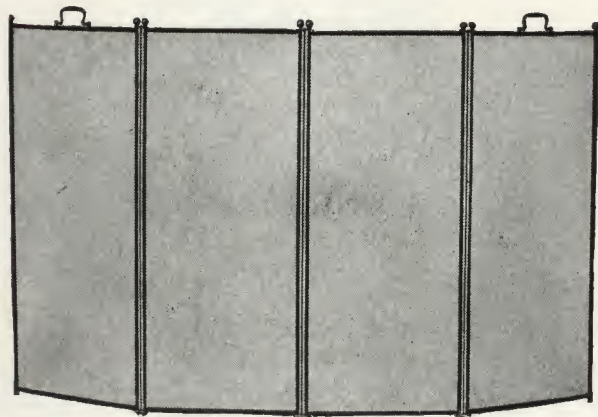




F.P. SMITH WIRE AND IRON WORKS, CHICAGO



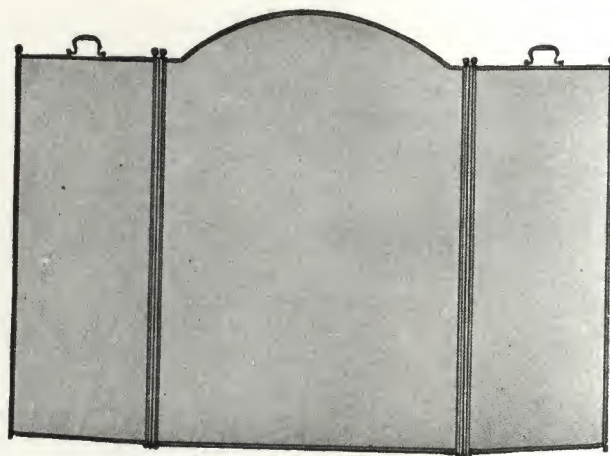
## Folding Fire Screens



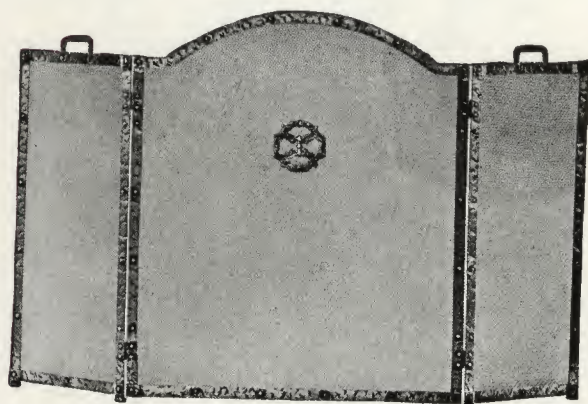
No. 126—4 Panels.

No. 127—3 Panels.

No. 128—3 Panels.

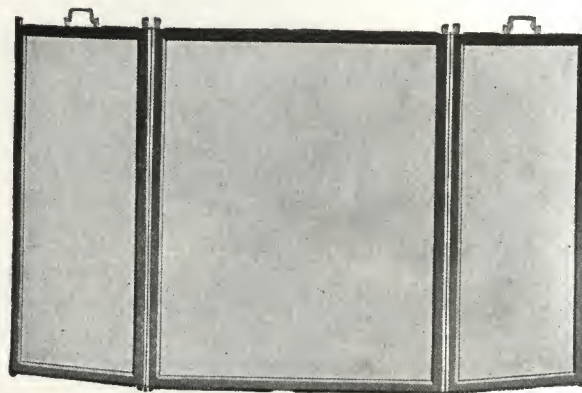


No. 129—3 Panels.



Nos. 130 to 137—3 Panel Round Top

Nos. 138 and 139—3 Panel Flat Top



No. 140—4 Panels.

No. 141—3 Panels.

No. 142—3 Panels.

No.	Height	Panels	Width	Fabric	Handles and Knobs	Frame	List Price Each
126	26"	4	12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	\$ 8.00
126	30"	4	12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	8.00
126	36"	4	12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	11.00
127	26"	3	12", 24", 12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	8.00
127	30"	3	12", 24", 12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	8.00
128	26"	3	12", 18", 12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	8.00
128	30"	3	12", 18", 12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	9.00
129	30", 34", 30"	3	12", 24", 12"	Black Wire—10 Mesh	Solid Brass	1/4" Round Black	10.00
130	30", 33", 30"	3	13", 24", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Swedish	21.00
131	26", 29", 26"	3	13", 24", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Swedish	21.00
132	30", 34", 30"	3	13", 30", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Swedish	25.00
133	30", 35", 30"	3	13", 36", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Swedish	31.00
134	30", 33", 30"	3	13", 24", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Antique Brass	25.00
135	26", 29", 26"	3	13", 24", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Antique Brass	25.00
136	30", 34", 30"	3	13", 30", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Antique Brass	29.00
137	30", 35", 30"	3	13", 36", 13"	Black Wire—8 Mesh	Plain Iron	1"x1/8" Flat Hammered Antique Brass	33.00



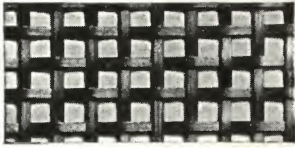


# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Folding Fire Screens (Continued)

No.	Height	Panels	Width	Fabric	Handles and Knobs	Frame	List Price Each
138	30"	3	13", 24", 13"	Black Wire Cloth—8 Mesh	Plain Iron	1"x $\frac{1}{8}$ " Flat Hammered Swedish	\$20.00
138	30"	3	13", 30", 13"	Black Wire Cloth—8 Mesh	Plain Iron	1"x $\frac{1}{8}$ " Flat Hammered Swedish	24.00
138	30"	3	13", 36", 13"	Black Wire Cloth—8 Mesh	Plain Iron	1"x $\frac{1}{8}$ " Flat Hammered Swedish	30.00
139	30"	3	13", 24", 13"	Black Wire Cloth—8 Mesh	Plain Iron	1"x $\frac{1}{8}$ " Flat Hammered Antique Brass	24.00
139	30"	3	13", 30", 13"	Black Wire Cloth—8 Mesh	Plain Iron	1"x $\frac{1}{8}$ " Flat Hammered Antique Brass	28.00
139	30"	3	13", 36", 13"	Black Wire Cloth—8 Mesh	Plain Iron	1"x $\frac{1}{8}$ " Flat Hammered Antique Brass	32.00
140	30"	4	12"	Black Wire Cloth—10 Mesh	Solid Brass	1"x $\frac{3}{8}$ " Flat Black	14.00
140	36"	4	12"	Black Wire Cloth—10 Mesh	Solid Brass	1"x $\frac{3}{8}$ " Flat Black	20.00
141	30"	3	12", 24", 12"	Black Wire Cloth—10 Mesh	Solid Brass	1"x $\frac{3}{8}$ " Flat Black	14.00
142	30"	3	12", 30", 12"	Black Wire Cloth—10 Mesh	Solid Brass	1"x $\frac{3}{8}$ " Flat Black	17.00



6 Mesh, flat wire cloth, basket weave.

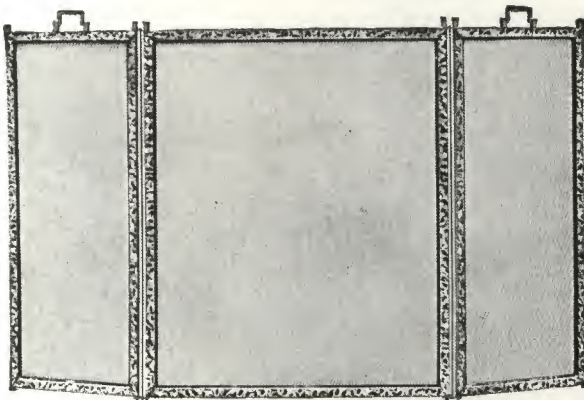
Actual size.

For screens made of 10 mesh, we use No. 25 round wire, for those of 8 mesh, No. 23 round wire, and for those of 6 mesh, flat wire basket weave.



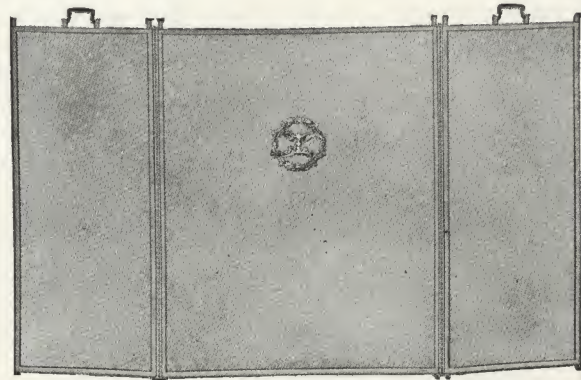
10 Mesh, No. 25 round wire.

Actual size.



No. 143 — 4 Panels  
No. 145 — 3 Panels  
No. 147 — 3 Panels  
No. 149 — 4 Panels

No. 144 — 3 Panels  
No. 146 — 4 Panels  
No. 148 — 3 Panels  
No. 150 — 3 Panels



No. 151 — 4 Panels without Medallion.  
No. 152 — 3 Panels with Medallion.

No.	Height	Panels	Width	Fabric	Handles and Knobs	Frame	List Price Each
143	26"	4	12"	Black Wire Cloth—10 Mesh	Ham'd Swedish	1"x $\frac{3}{8}$ " Flat Hammered Swedish	\$14.00
143	30"	4	12"	Black Wire Cloth—10 Mesh	Ham'd Swedish	1"x $\frac{3}{8}$ " Flat Hammered Swedish	14.00
143	36"	4	12"	Black Wire Cloth—10 Mesh	Ham'd Swedish	1"x $\frac{3}{8}$ " Flat Hammered Swedish	20.00
144	26"	3	12", 24", 12"	Black Wire Cloth—10 Mesh	Ham'd Swedish	1"x $\frac{3}{8}$ " Flat Hammered Swedish	14.00
144	30"	3	12", 24", 12"	Black Wire Cloth—10 Mesh	Ham'd Swedish	1"x $\frac{3}{8}$ " Flat Hammered Swedish	14.00
145	30"	3	12", 30", 12"	Black Wire Cloth—10 Mesh	Ham'd Swedish	1"x $\frac{3}{8}$ " Flat Hammered Swedish	17.00
146	26"	4	12"	Black Wire Cloth—10 Mesh	Antique Brass	1"x $\frac{3}{8}$ " Flat Ham'd Antique Brass	14.00
146	30"	4	12"	Black Wire Cloth—10 Mesh	Antique Brass	1"x $\frac{3}{8}$ " Flat Ham'd Antique Brass	14.00
146	36"	4	12"	Black Wire Cloth—10 Mesh	Antique Brass	1"x $\frac{3}{8}$ " Flat Ham'd Antique Brass	20.00
147	26"	3	12", 24", 12"	Black Wire Cloth—10 Mesh	Antique Brass	1"x $\frac{3}{8}$ " Flat Ham'd Antique Brass	14.00
147	30"	3	12", 24", 12"	Black Wire Cloth—10 Mesh	Antique Brass	1"x $\frac{3}{8}$ " Flat Ham'd Antique Brass	14.00
148	30"	3	12", 30", 12"	Black Wire Cloth—10 Mesh	Antique Brass	1"x $\frac{3}{8}$ " Flat Ham'd Antique Brass	17.00
149	30"	4	12"	Black Wire Cloth—10 Mesh	Solid Brass	1"x $\frac{3}{8}$ " Flat Solid Brass, Hammered	20.00
150	26"	3	12", 24", 12"	Black Wire Cloth—10 Mesh	Solid Brass	1"x $\frac{3}{8}$ " Flat Solid Brass, Hammered	20.00
150	30"	3	12", 24", 12"	Black Wire Cloth—10 Mesh	Solid Brass	1"x $\frac{3}{8}$ " Flat Solid Brass, Hammered	20.00
151	30"	4	12"	Black Flat Wire — 6 Mesh	Solid Brass	$\frac{7}{16}$ " Square Solid Brass	35.00
152	30"	3	12", 24", 12"	Black Flat Wire — 6 Mesh	Solid Brass	$\frac{7}{16}$ " Square Solid Brass	35.00

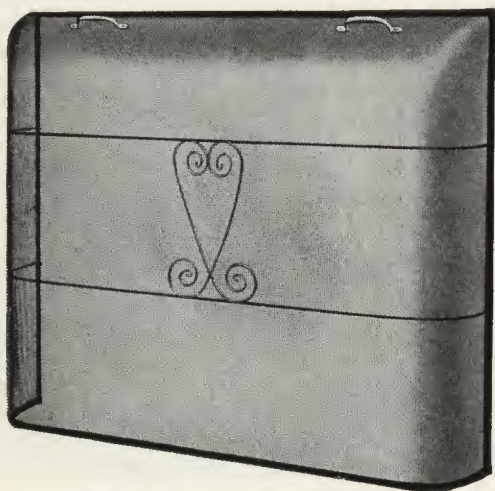




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



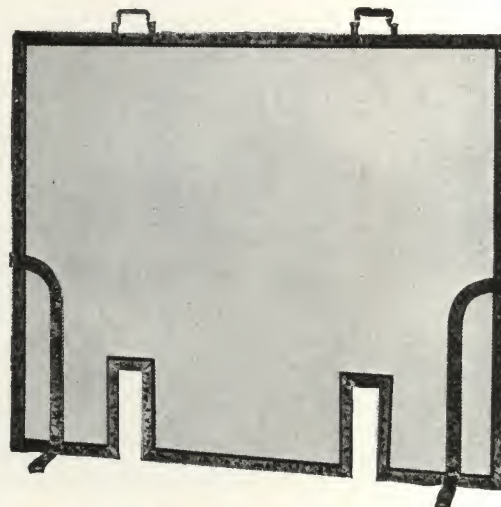
## Spark Arresters and Spark Guards



**No. 19 Spark Guard—Black**

31 inches high by 7 inches deep, except 50 inch, which is 10 inches deep. Made of 6 mesh black wire cloth. Brass Handles and Ornamental Brass Center Pieces. Outside rod, 5/16 inch round iron. Center has two iron rod supports. These Guards are heavy and strong.

Width	List Price, Each
27 Inches	\$ 5.00
31 Inches	6.00
37 Inches	8.00
43 Inches	12.00
50 Inches	17.00



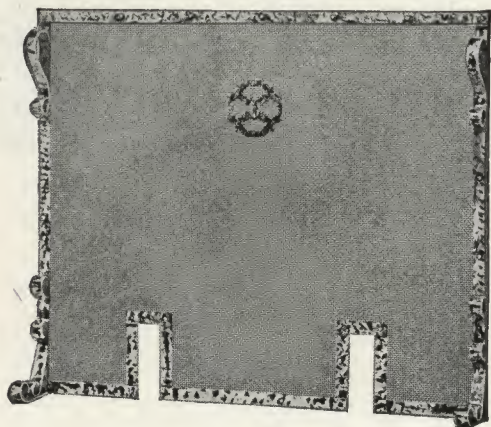
**No. 27 and No. 28 Spark Arrester**

**No. 27** Hammered Swedish.

**No. 28** Hammered Antique Brass.

Made of 8 mesh, No. 23 gauge black wire cloth. Frame of 1x3/8 inch hammered flat metal. Hammered handles.

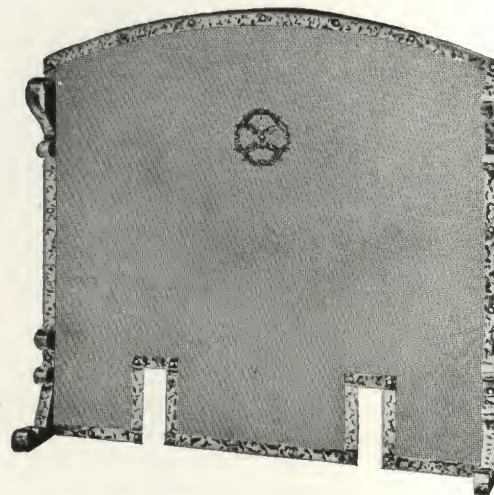
Width	Height	List Price, Each
32 Inches	31 Inches	\$15.00
38 Inches	31 Inches	17.00
44 Inches	31 Inches	21.00



**No. 24 Spark Arrester**

Made of 8 mesh, No. 23 gauge, black wire cloth. Frame and handles of 1x3/8 inch wrought iron.

		List Price, Each	
Width	Height	Hammered Swedish	Hammered Antique Brass
32 inches	31 inches	\$24.00	\$27.00
38 inches	31 inches	26.00	29.00
44 inches	31 inches	30.00	32.00



**No. 25 Spark Arrester—Round Top**

Made of 8 mesh, No. 23 gauge, black wire cloth. Frame and handles of 1x3/8 inch wrought iron.

		List Price, Each	
Width	Height	Hammered Swedish	Hammered Antique Brass
32 inches	34 1/2 inches	\$29.00	\$31.00
38 inches	35 1/2 inches	31.00	33.00
44 inches	36 1/2 inches	33.00	35.00

The Andiron openings in all our Spark Arresters measure 2 inches wide by 6 inches high. The distance between Andiron openings in center in the two smaller sizes is 18 inches and in the largest size 24 inches.

**SPECIAL SIZES MADE TO ORDER**





## Andirons and Wood Carrier



Nos. 180 and 181



Nos. 182 and 183



Nos. 184 and 185



Nos. 186 and 187



Nos. 188, 189 and 190



Nos. 191 and 192



Nos. 193 and 194



Nos. 195 and 196

No.	Height		List Price, Per Pair
180	16 "	Hammered Swedish	\$10.00
181	16 "	Hammered Antique Brass	11.00
182	16 "	Hammered Swedish	11.00
183	16 "	Hammered Antique Brass	12.00
184	17½"	Hammered Swedish	12.00
185	17½"	Hammered Antique Brass	13.00
186	20½"	Hammered Swedish	13.00
187	20½"	Hammered Antique Brass	14.00
188	17½"	Black	13.00
189	17½"	Black, Solid Brass Ball	20.00
190	17½"	Solid Brass	40.00
191	17½"	Hammered Swedish	15.00
192	17½"	Hammered Antique Brass	16.00
193	21½"	Hammered Swedish	17.00
194	21½"	Hammered Antique Brass	18.00
195	18½"	Hammered Swedish	17.00
196	18½"	Hammered Antique Brass	18.00

Log Rest Extensions, 14 inches long, as shown with Andirons Nos. 186 and 187, are used to extend the arm rests when the Fireplace is extra deep and are especially desirable in connection with Spark Arresters. Price, per pair.....\$3.00



Wood Carrier

20½ inches long, 11 inches wide, 5 inches deep. Distance from floor to top of handle, 16 inches.

No. 65 Black, Solid Brass Handle....\$8.00  
No. 66 Hammered Swedish ..... 9.00  
No. 67 Hammered Antique Brass... 9.00





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



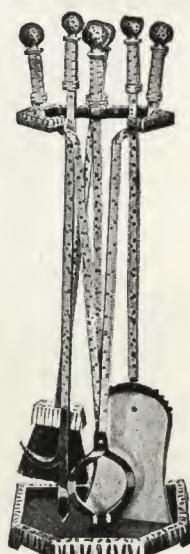
## Fire Sets and Grates



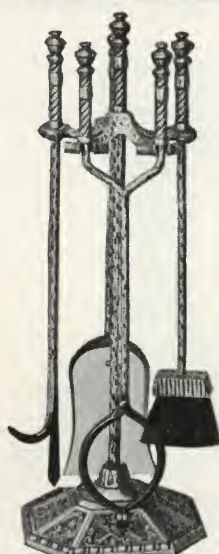
Nos. 160, 161,  
162, 163



Nos. 164  
and 165



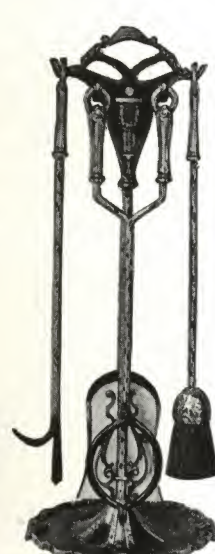
Nos. 166  
and 167



Nos. 168  
and 169



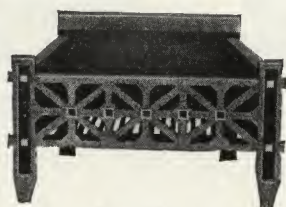
Nos. 170  
and 171



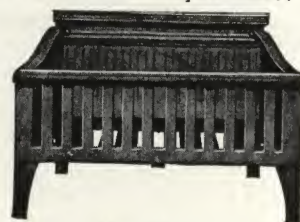
Nos. 172  
and 173

No.	Height		List Price, Per Set
160	25"	Black without brush.....	\$ 7.00
161	25"	Black with brush.....	9.00
162	30"	Black without brush.....	13.00
163	30"	Black with brush and solid brass handles	18.00
164	30"	Hammered Swedish .....	15.00
165	30"	Hammered Antique Brass.....	17.00
166	30"	Hammered Swedish .....	15.00

No.	Height		List Price, Per Set
167	30"	Hammered Antique Brass.....	17.00
168	26"	Hammered Swedish .....	17.00
169	26"	Hammered Antique Brass.....	19.00
170	32"	Hammered Swedish .....	17.00
171	32"	Hammered Antique Brass.....	19.00
172	31"	Hammered Swedish .....	19.00
173	31"	Hammered Antique Brass.....	21.00

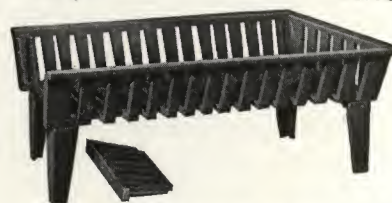


No. 150



No. 151

No.	Front inches	Back inches	Depth inches	Black List Price, Each	Hammered Swedish List Price, Each	Antique Brass List Price, Each
150	22	16	12	\$10.00	\$13.00	\$15.00
150	24	18	12	12.00	15.00	17.00
150	26	21	12	14.00	17.00	20.00
150	29	24	12	16.00	19.00	22.00
150	36	30	12	22.00	25.00	28.00
151	19	17	11	8.00	11.00	13.00
151	21	19	11	9.00	12.00	14.00
151	23	21	11	9.00	13.00	15.00
151	26	24	11	12.00	15.00	17.00
151	29	25	11	14.00	18.00	21.00
151	35	33	11	23.00	25.00	28.00
152	20	17	14	9.00		
152	24	21	14	10.00		
152	27	24	14	11.00		
152	29	26	14	12.00		
152	36	33	14	15.00		
152	40	37	14	20.00		
153	28	24	17½	14.00		
153	31	27	17½	15.00		
153	37	32	17½	18.00		
153	41	36	17½	27.00		



Nos. 152 and 153  
With Detachable Ends and Legs

Nos. 152 and 153 furnished only in black. All dimensions are to the extreme outside.  
In ordering Fireplace Grates BE SURE TO SPECIFY finish desired, and size.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Iron Furniture

We illustrate in this catalog a variety of designs of iron tables, settees, chairs and other pieces of Iron Furniture suitable for the garden, lawn and porch. Iron Furniture of the correct design adds immeasurably to the attractiveness of the porch and garden.

Any garden, whether a vast estate or of the smallest size, can be made delightful and interesting by the use of some pieces of our Iron Furniture.



A view of a Formal Garden on an estate at Lake Forest, Illinois, showing Iron Work of our manufacture, such as Iron Pergola, Iron Fence, Ornamental Iron Backs for benches, Flower Pot Holders, Ladder and Railing for swimming tank.



No. 20

### No. 20 Flower Pot Holder

Wrought, hand made. Height,  $11\frac{3}{4}$  inches; diameter at top,  $13\frac{1}{2}$  inches; diameter at bottom,  $9\frac{3}{4}$  inches. Dimensions given are on the inside.

Price.....each, \$25.00

A very artistic and durable holder for large pottery and wooden flower pots.

Special sizes can be made to order.





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



### Iron Furniture (Continued)



**No. 24 Colonial Arm Chair**

A combination of wrought and grey iron.

Price.....each, \$32.00



**No. 41 Colonial Settee**

A combination of wrought and grey iron. Length, 46 inches.

Price.....each, \$44.00



**No. 42 Colonial Side Chair**

A combination of wrought and grey iron.

Price.....each, \$30.00



**No. 19 Colonial Table**

Wrought, hand forged, with grey iron ornaments. Height, 30 inches; diameter of top, 30½ inches.

Price.....each, \$47.00

All of our Iron Furniture is substantially constructed with additional weight put in parts that are subjected to the most strain. All wrought parts are made of the best grade of open hearth steel. All cast iron parts are made of pure grey iron, poured in our own foundry and made extra heavy to resist breakage. Ornamental wrought parts are hand forged. Our Iron Furniture will last indefinitely.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



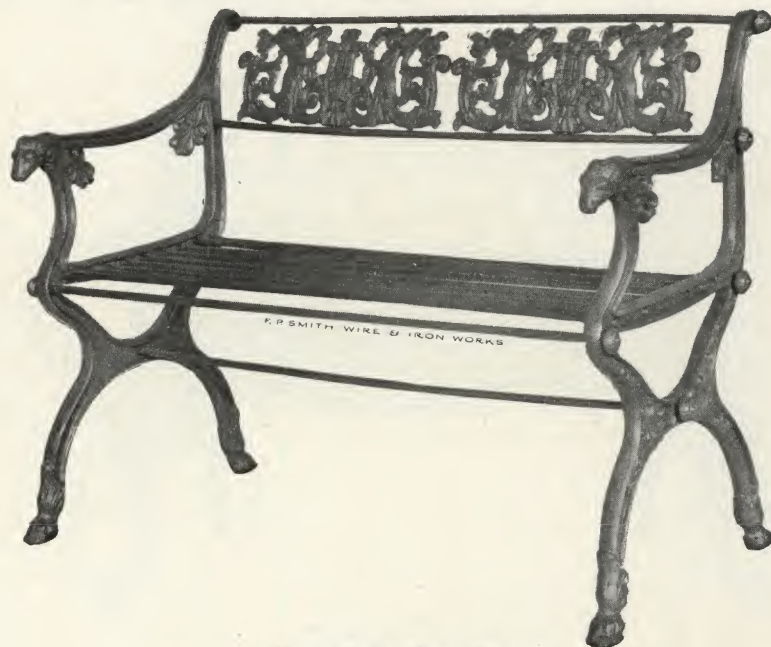
## Iron Furniture (Continued)



**No. 27 English Arm Chair**

A combination of wrought and grey iron.

Price.....each, \$33.00



**No. 34 English Settee**

A combination of wrought and grey iron. Length, 42 inches.

Price.....each, \$37.00



**No. 15 English Side Chair**

A combination of wrought and grey iron.

Price.....each, \$31.00



**No. 35 English Table**

Wrought, hand forged, with grey iron ornaments. Height, 31 inches; top, 34 inches by 21 inches.

Price.....each, \$58.00

Each piece of our Iron Furniture receives two coats of the best mineral paint, in a plain color, before shipping. All pieces of Iron Furniture shown in this catalog are priced accordingly. Special finishes, such as Verdigris (blueish-green), Polychrome, Imitation Rust, etc., can be furnished at a slight additional charge. Wrought parts can also be furnished in hammered effect at an extra charge.





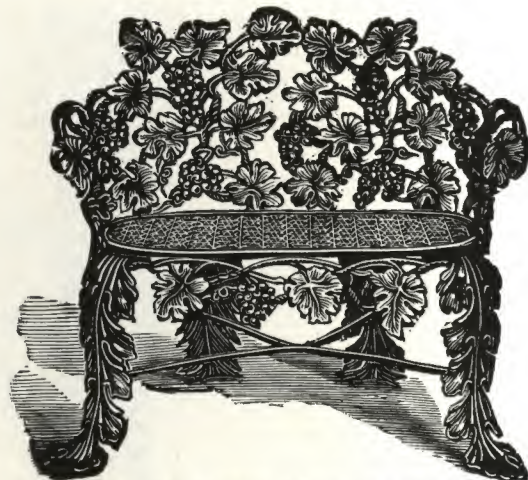
## Iron Furniture (Continued)



**No. 16 Gothic Settee**

Grey iron. Length, 42 inches.

Price.....each, \$40.00



**No. 18 Grape Vine Settee**

Grey iron. Length, 42 inches.

Price.....each, \$38.00

**No. 23 Grape Vine Chair**

To match above Settee.

Price.....each, \$24.00



**No. 17 Wrought Steel Settee**

Length, 51 inches. Price.....each, \$18.00

Length, 72 inches. Price.....each, 24.00



**No. 4 Wrought Steel Settee**

Same as No. 17, except without scrolls

Length, 51 inches. Price.....each, \$13.00

Length, 72 inches. Price.....each, 19.00

The above Wrought Steel Settees can be made any desired length. When made over 6 feet in length they are made with 3 legs instead of 2, as shown. As the Settees are made entirely of Wrought Steel, they are Non-Breakable, cannot be mutilated, and are superseding the old time wooden ones. Special prices in large quantities.

Our Iron Settees and Chairs, when placed in a restful place in the garden or on the porch, add much to your comfort, in addition to their attractiveness.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Iron Furniture (Continued)



**No. 143 Spanish Chair**

Wrought, hand forged.

Price .....each, **\$90.00**



**No. 28 Spanish Settee**

Wrought, hand forged. Length, 42 inches.

Price .....each, **\$120.00**



**No. 17 Conservatory Table**

Grey iron. Height, 29½ inches; diameter of top, 28½ inches.

Price .....each, **\$50.00**



**No. 16 Bird Bath**

Grey iron. Height, 33 inches; diameter of top, 22¼ inches; base, 15 inches square.

Price .....each, **\$24.00**

All Iron Furniture shown in this catalog receives two coats of the best mineral paint, in a plain color, before shipping. Special finishes can be furnished at a slight additional charge.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



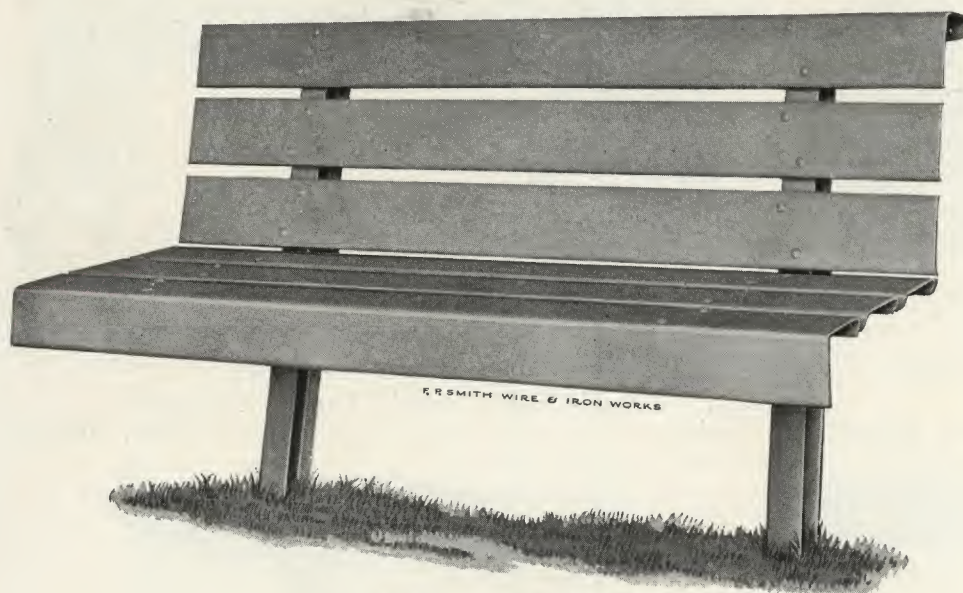
## Smith Improved Park Bench

SMITH IMPROVED PARK BENCHES are built along scientific lines, producing the utmost strength in the most economical way.

They are highly commended and endorsed by Commissioners and Superintendents of public parks and playgrounds. They are specially adapted for railway stations, oil stations, golf clubs and all public places where benches are required to withstand the most strenuous service.

Where benches are required for public places to withstand hard usage, the management in the past had little success in obtaining a bench constructed sufficiently durable to afford a reasonable length of life.

The old style wooden bench would not withstand the elements and the knives of mischievous boys. In the combination wood and iron benches, the iron parts, which are usually made of cast iron, would easily become broken when tipped or from even a slight jar. Benches made of concrete are cumbersome and liable to crack from changes in temperature.



No. 100 Improved Park Bench  
Patented July 23, 1929

The slats are made of heavy open hearth steel plate formed into wide "U" shaped members producing great strength. They are bolted to legs and cross members with separators, which greatly increases their rigidity, and placed close together to prevent mischievous boys from prying them apart with baseball bats or sticks.

The slats can be removed in the winter and stored away, if desired. The legs can be left in place, being heavy enough to withstand the elements indefinitely. If preferred to leave entire bench in place permanently, the bolts can easily be riveted, avoiding any possibility of slats being removed.

All parts are dipped in the best air-drying green enamel paint before being assembled, insuring a thorough coat of paint.

SMITH IMPROVED PARK BENCHES are made with legs at back only, extending 2'6" below grade to imbed into concrete. This, in addition to simplifying the construction, allows a free passage underneath bench for mowing the lawn. By imbedding the legs, our benches cannot be tipped or carried away.

### PRICE LIST

Regular Lengths		Each
5	feet long, with 2 legs.....	\$31.00
6	feet long, with 2 legs.....	34.00
7½	feet long, with 2 legs.....	38.00
10	feet long, with 3 legs.....	52.00
12½	feet long, with 3 legs.....	60.00
15	feet long, with 3 legs.....	66.00

Special lengths made to order.

**DISCOUNT TO THE TRADE. SPECIAL PRICES ON LARGE QUANTITIES**

Can be shipped "knocked down" at considerable saving in freight charges. They are easily assembled by bolting together.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**

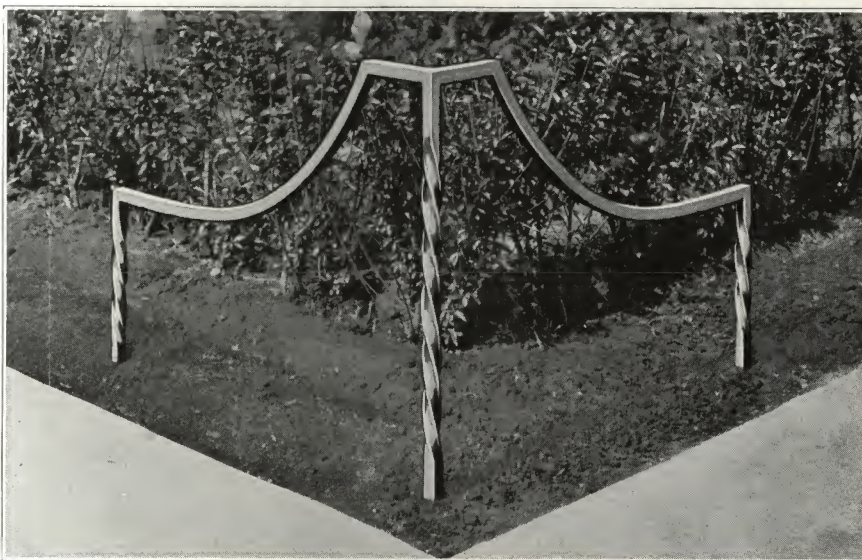


## Smith Improved Park Bench (Continued)



Patent applied for  
VIEW OF SOME OF OUR IMPROVED PARK BENCHES, GIVING ENTIRELY SATISFACTORY SERVICE  
AT INDEPENDENCE PARK, IRVING PARK DISTRICT, CHICAGO, ILL.

## Smith Lawn Protectors



SMITH LAWN PROTECTORS are durably constructed of heavy open hearth square steel. They are built to give indefinite service and they will always retain their shape.

Most lawns are ruined by trespassers walking across the corner. Our Lawn Protectors completely fill the long needed requirement for a substantial and attractive protector for the corners of lawns, to prevent trespassers from ruining the grass or shrubbery.

In addition to their usefulness, they add much to the beauty of the lawn and surroundings.

They are made portable with projecting ends pointed for easy insertion into the ground. Where required for permanent installation, we equip them with substantial anchors so they cannot be removed.

SMITH LAWN PROTECTORS are made in two standard designs, one with uprights twisted as illustrated above and one with plain uprights. They are made to set 24 inches high above ground at center with ends projecting 18 inches, for insertion into the ground. Each wing measures 30 inches long.

PRICE LIST			
No. 11	Portable twisted uprights, each.....	\$7.00	No. 21 With anchors, twisted uprights, each.....\$8.00
No. 12	Portable plain uprights, each.....	6.00	No. 22 With anchors, plain uprights, each..... 7.00
Finished by dipping in the best graphite paint. Will be shipped in this finish unless otherwise specified.			
Discount to the trade. Special sizes made to order.			





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Iron Reservoir Vases



**No. 39 Vase**

Height to top of handles, 42 inches; diameter of top, 18½ inches; width, including handles, 34 inches; base, 17 inches square; capacity of reservoir, 4½ gallons.  
Price, painted .....each, \$42.00

**No. 40 Vase.** Same as above, without handles. Height, 35 inches.  
Price, painted .....each, \$36.00



**No. 21 Vase**

Height, 32 inches; diameter of top, 21 inches; base, 17 inches square; reservoir, 2½ gallons.  
Price, painted .....each, \$28.00

**No. 22 Vase.** Same as above, with handles. Height to top of handles 38 inches.  
Price, painted .....each, \$31.00

Vases are painted green and will be shipped in this color unless otherwise specified.  
Can be painted in other colors, painted with bronze relief or bronzed solid at small additional cost.



**No. 33 Vase**

Height to top of handles, 48 inches; diameter of top, 22 inches; width, including handles, 30 inches; base, 17 inches square; capacity of reservoir, 3 gallons.  
Price, painted .....each, \$42.00

**No. 30 Vase.** Same as above, without handles. Height, 43 inches.  
Price, painted .....each, \$39.00



**No. 41 Vase**

Height, 27 inches; diameter of top, 16 inches; base, 14 inches square; capacity of reservoir, 1½ gallons.  
Price, painted .....each, \$21.00

**No. 42 Vase.** Same as above vase, without bottom pedestal. Height, 21 inches; diameter of top, 16 inches; base, 10 inches square; capacity of reservoir, 1½ gallons.  
Price, painted .....each, \$18.00





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



### Iron Reservoir Vases (Continued)



No. 43 Vase

Height to top of handles, 36 inches; diameter of top, 22 inches; base, 17 inches square; capacity of reservoir, 3 gallons.  
Price, painted.....each, \$33.00

No. 44 Vase

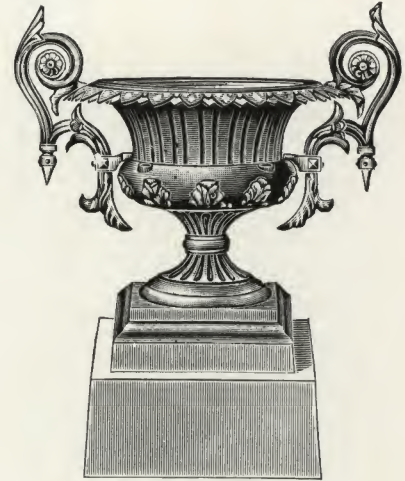
Same as above, without handles. Height, 31 inches.  
Price, painted.....each, \$30.00



No. 45 Vase

Height, 20 inches; diameter of top, 22 inches; base, 14 inches square; capacity of reservoir, 1½ gallons.  
Price, painted.....each, \$20.00

No. 46 Vase. Same as above, with handles like No. 31 vase. Height to top of handles, 26 inches.  
Price, painted.....each, \$23.00



No. 31 Vase

Height to top of handles, 34½ inches; diameter of top, 22 inches; base 17 inches square; capacity of reservoir, 1½ gallons.  
Price, painted.....each, \$29.00

No. 47 Vase. Same as above, without handles. Height, 26½ inches.  
Price, painted.....each, \$26.00

We manufacture a variety of designs of Iron Vases, both with and without reservoirs. Special literature will be mailed on application.

### Bronze Grave Markers

Our Grave Markers of genuine solid bronze are beautiful and enduring memorials to the dead. The lettering, borders and decorative designs are hand-chased and highly polished, the background oxidized.

These Grave Markers come in two sizes, 10" by 20" and 12" by 24", and they may be had in a variety of finishes such as Light Statuary, Dark Statuary, Medallion, Pompeian Green and Verdi Antique. They are each furnished with four pins on the back to anchor into concrete.

Bronze bases can also be furnished, if desired. To provide the proper pitch, these bases are 3" high in front and 5" high in back. See illustration No. 28 below.

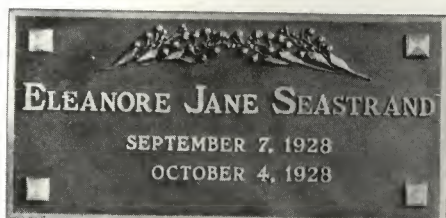
Please order by number, giving design desired, lettering and finish. Special sizes and designs made to order.



Design A—Laurel Wreath



Design B—Oak Leaf



Design C—Lily of the Valley

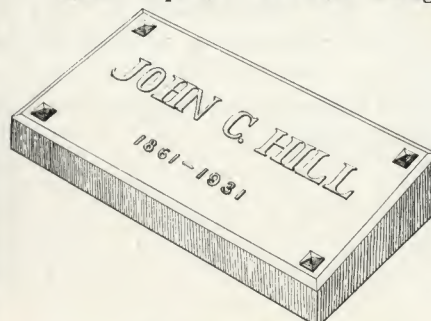


Illustration No. 28

No. 110 Small size ....\$30.00

No. 112 Large size .... 31.00

No. 114 Small size with  
base ..... 43.00

No. 116 Large size with  
base ..... 45.00

DISCOUNT TO THE TRADE





F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## TRIANGULAR Iron Fences

TRADE MARK

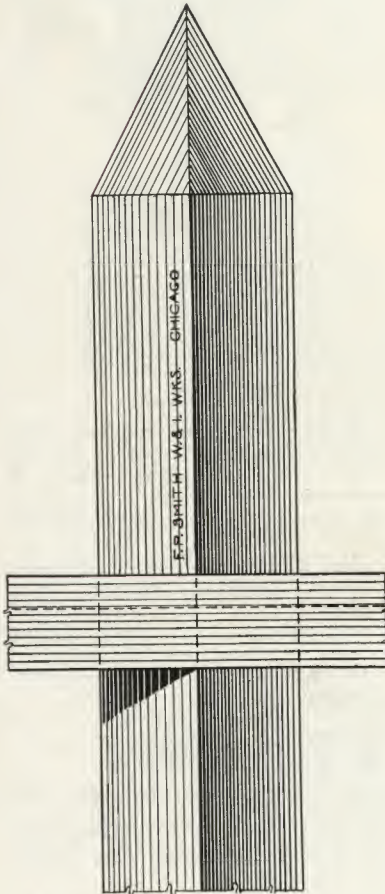
Patented Oct. 5, 1909

**Details No. 1, 2 and 3** show in full size our standard picket, made of  $\frac{3}{4}$  x  $\frac{3}{4}$ -inch angle (3-16" thick) for two-rail fences up to 72" high when set and for three-rail fences up to 78" high when set; for greater heights we use 1"x1" angle (3-16" thick), as listed on the following pages.

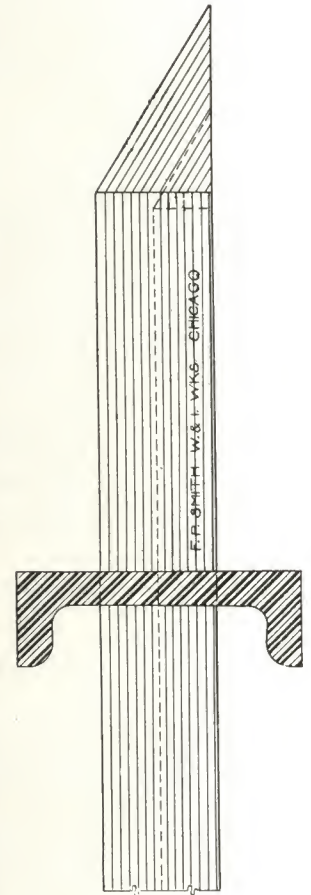
**Detail No. 1** shows a front view of the picket, i. e. from the outside of the fence, presenting the same appearance as the regular solid picket fence; **Detail No. 2** is a sectional view through the picket, looking down towards the top rail; and **Detail No. 3** is a side view of the picket, also showing a cross section of the top rail.

We desire to call your particular attention to the fact that the top, or head, of our TRIANGULAR fence picket, in the plain pointed style shown by these details (which is the most popular pattern), is not made separately and then attached to the picket, but is forged from the picket itself; and this is done, by our special process, without joining of any kind, either within the head or in the picket, thus forming a head, or top, unbreakable in itself and undetachable from the picket.

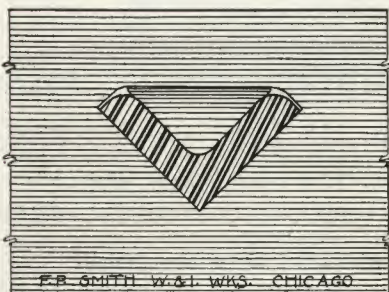
Please note that we are the ORIGINATORS and PATENTEES of this construction of iron fence, which affords economy and good appearance, without impairing the strength or durability of the fence, and BEWARE of crude, unscrupulous imitations, which DO NOT present the appearance of a solid picket fence and are generally worthless.



DETAIL NO. 1



DETAIL NO. 3



DETAIL NO. 2





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Iron Fences (Continued)



### No. 600 TRIANGULAR

TRADE MARK

Iron Fence with two rails

### No. 601 TRIANGULAR

TRADE MARK

Iron Fence with three rails

LIST PRICE PER LINEAL FOOT, INCLUDING LINE POSTS.

				No. 600 Design	No. 601 Design	Tubular Steel Posts for Gates and Ends, extra
Pickets	30 in. high, or about 34 in. high when set,			\$3.00	\$3.40	Each \$13.00
"	32 " " " 36 " " "			3.15	3.55	" 13.50
"	36 " " " 40 " " "			3.40	3.80	" 15.00
"	42 " " " 46 " " "			3.75	4.15	" 17.00
"	48 " " " 52 " " "			4.15	4.50	" 19.00
"	54 " " " 58 " " "			4.50	4.90	" 21.00

On account of the extra labor and material Gates are charged extra, Single Gates, \$25.00, and Double Gates, \$50.00, and measured in the length of Fence. Our adjustable Line Posts are used about every 7 feet the entire length of Fence. Our standard pickets of  $\frac{3}{4}$ "x $\frac{3}{4}$ " angle,  $\frac{5}{16}$ " thick, with solid drop-forged tops, used for all heights listed above unless otherwise specified. Any pattern of cast Posts can be used in place of the square Tubular Posts shown in the above cut at prices stated on other pages.



In addition to plain Iron Fences, we make Ornamental Iron Fences and Gates in an almost endless variety of patterns.

We have many standard designs of Ornamental Iron Fences, for our customers to make a selection from; or we will gladly make up and submit special designs in accordance with such lines as they may suggest. Correspondence solicited.



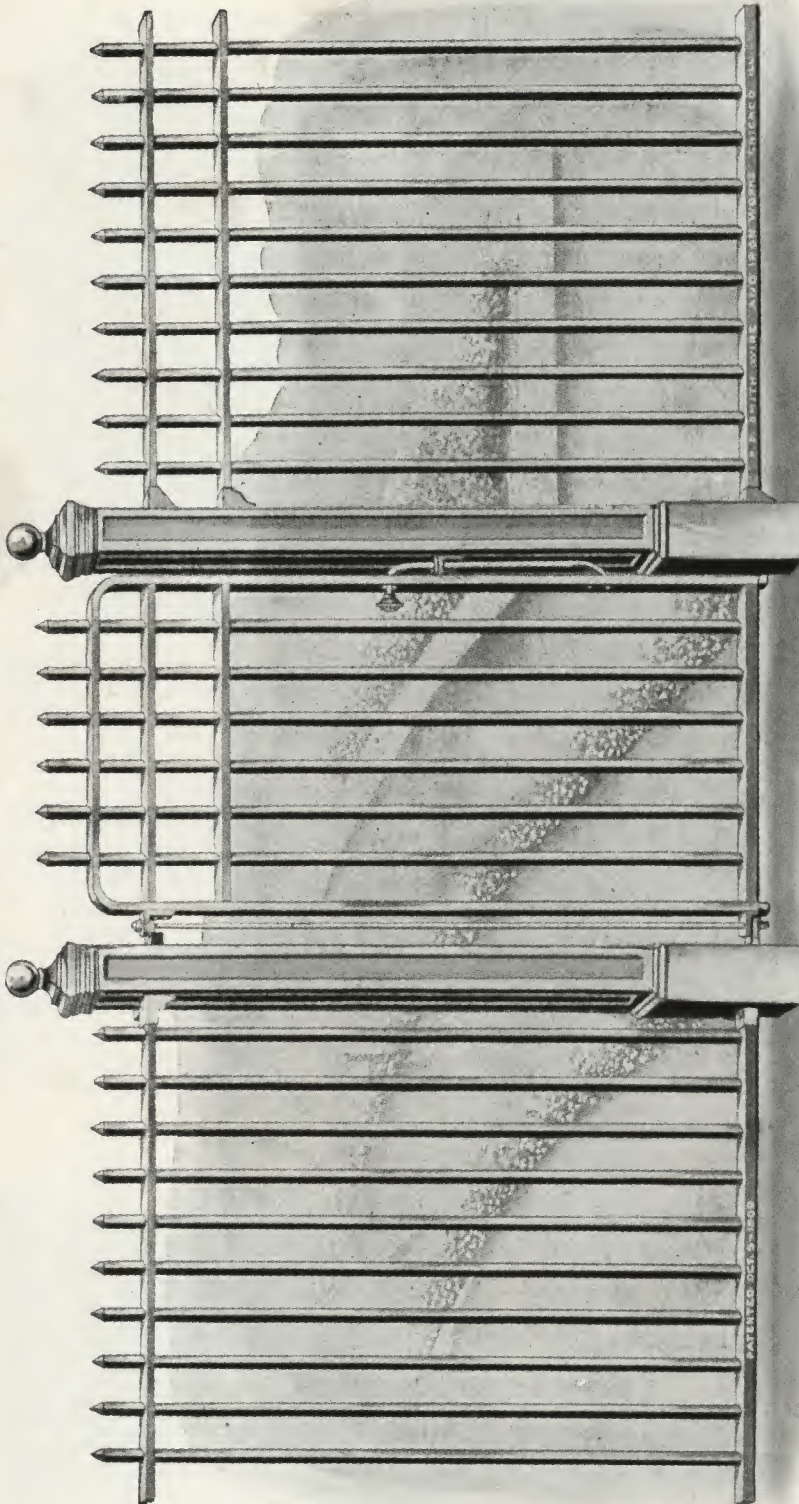




F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Iron Fences (Continued)



### No. 606 TRIANGULAR

TRADE MARK

Iron Fence with two rails.

LIST PRICE, PER LINEAL FOOT  
Including line posts.

Pickets	56 in. " high,	or about 60 in. " high	when set,
"	62	" 66	"
"	68	" 72	"
"	74	" 78	"
"	80	" 84	"
"	86	" 90	"
"	92	" 96	"

### No. 607 TRIANGULAR

TRADE MARK

Iron Fence with three rails.

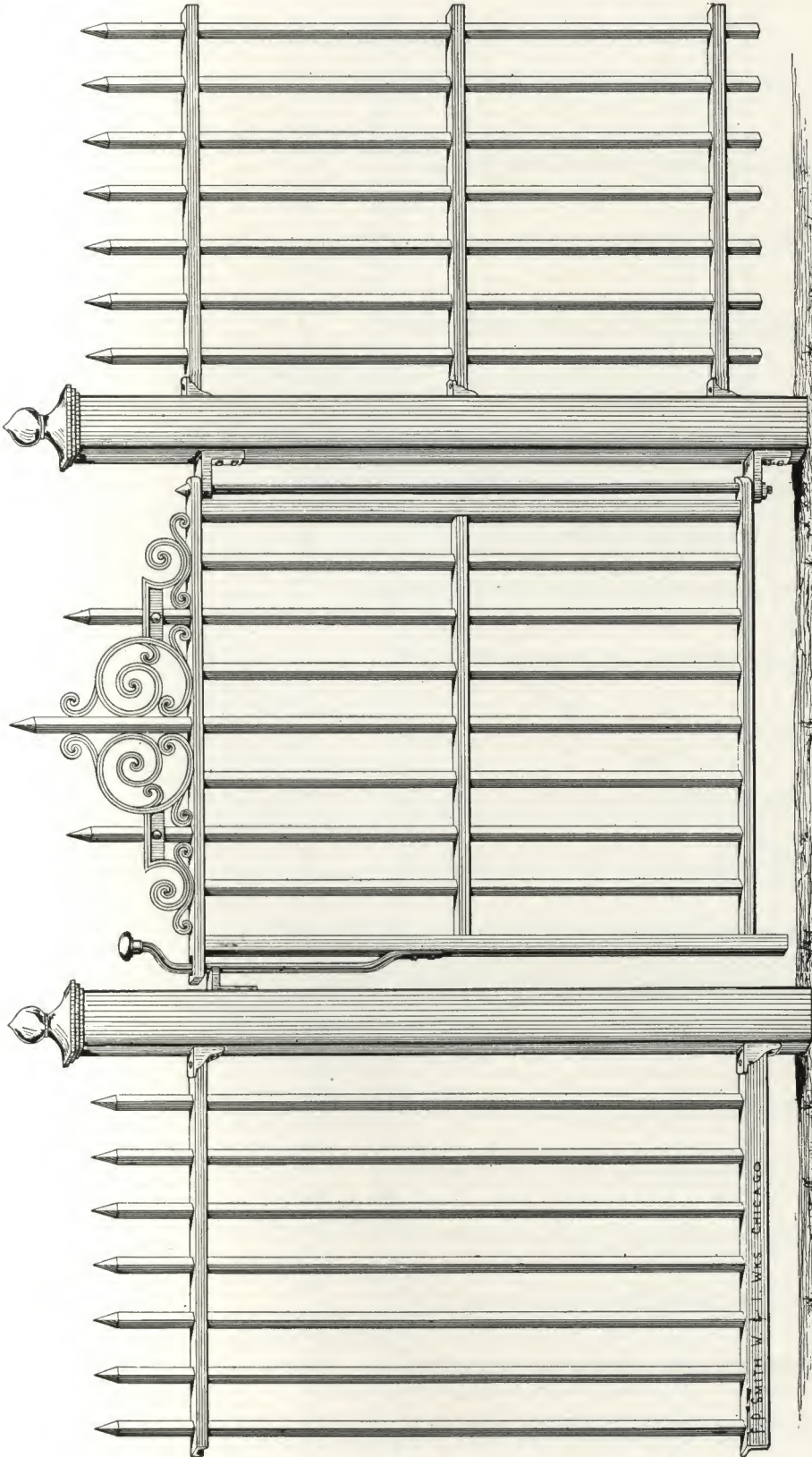
No. 606 Design	No. 607 Design	Large Posts for Gates and Ends, Extra
\$4.75 S	\$5.25 S	Each, \$40.00
5.10 S	5.60 S	" 45.00
5.50 S	6.00 S	" 50.00
6.40 H	6.40 S	" 55.00
6.90 H	7.40 H	" 60.00
7.40 H	7.90 H	" 65.00
7.90 H	8.40 H	" 70.00

On account of the extra labor and material Gates are charged extra, Single Gates, \$25.00, and Double Gates, \$50.00, and measured in the length of Fence. Our adjustable Line Posts are used about every seven feet the entire length of Fence. Our standard pickets,  $\frac{3}{4}$ " x  $\frac{3}{4}$ " angle where marked "S" and 1"x1" angle where marked "H,"  $\frac{3}{8}$ " thick, with solid drop-forged tops, used unless otherwise specified.





## Iron Fences (Continued)



No. 680 Design Iron Fence  
With two rails.

No. 681 Design Iron Fence  
With three rails.

These are neat and attractive patterns, plain, but strong and durable, suitable for residences, front or division fences, cemetery lots, court houses, parks etc. For instructions in ordering or estimating Fences, see page 106.

### LIST PRICE, PER LINEAL FOOT

3/8-inch pickets, 26 inches high, or about	30 in. high when set,
1 1/8	34
1 1/4	36
1 1/2	38
1 3/4	40
2	42
2 1/4	44
2 1/2	46
2 3/4	48
3	50
3 1/4	52
3 1/2	54

For No. 680	For No. 681	Tubular Posts for
Round Pickets	Round Pickets	Gates and Ends
\$2.00	\$2.25	Each, \$12.00
2.25	2.50	" 13.00
2.40	2.60	" 13.50
2.50	2.75	" 15.00
2.75	3.05	" 15.00
3.00	3.40	" 17.00
3.50	3.90	" 17.00
4.00	4.40	" 19.00
5.00	5.50	" 19.00
5.50	6.00	" 21.00
	6.00	

On account of the extra labor and material, Gates are charged extra—single Gates, \$25.00; double Gates, \$50.00—and measured in the Fence.

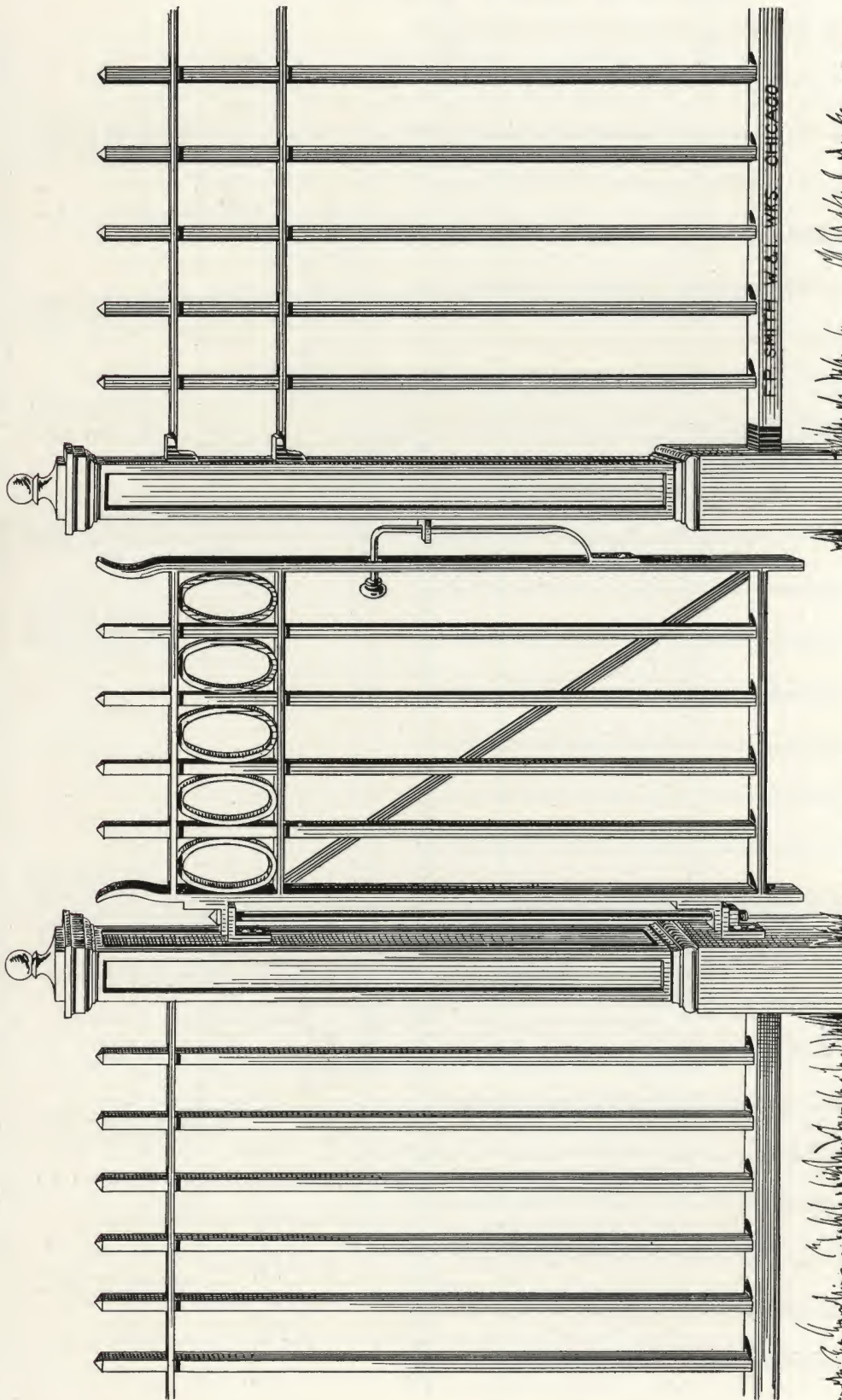




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Iron Fences (Continued)



No. 684 Design Iron Fence

No. 686 Design

No. 685 Design Iron Fence

These are neat and attractive patterns, specially suitable where a high fence is desired. When square pickets are used, they are generally set square, as shown in the cut, but can be set "on the diamond" (as shown in Designs No. 680-681) if preferred.

LIST PRICE, PER LINEAL FOOT  
Including line posts.

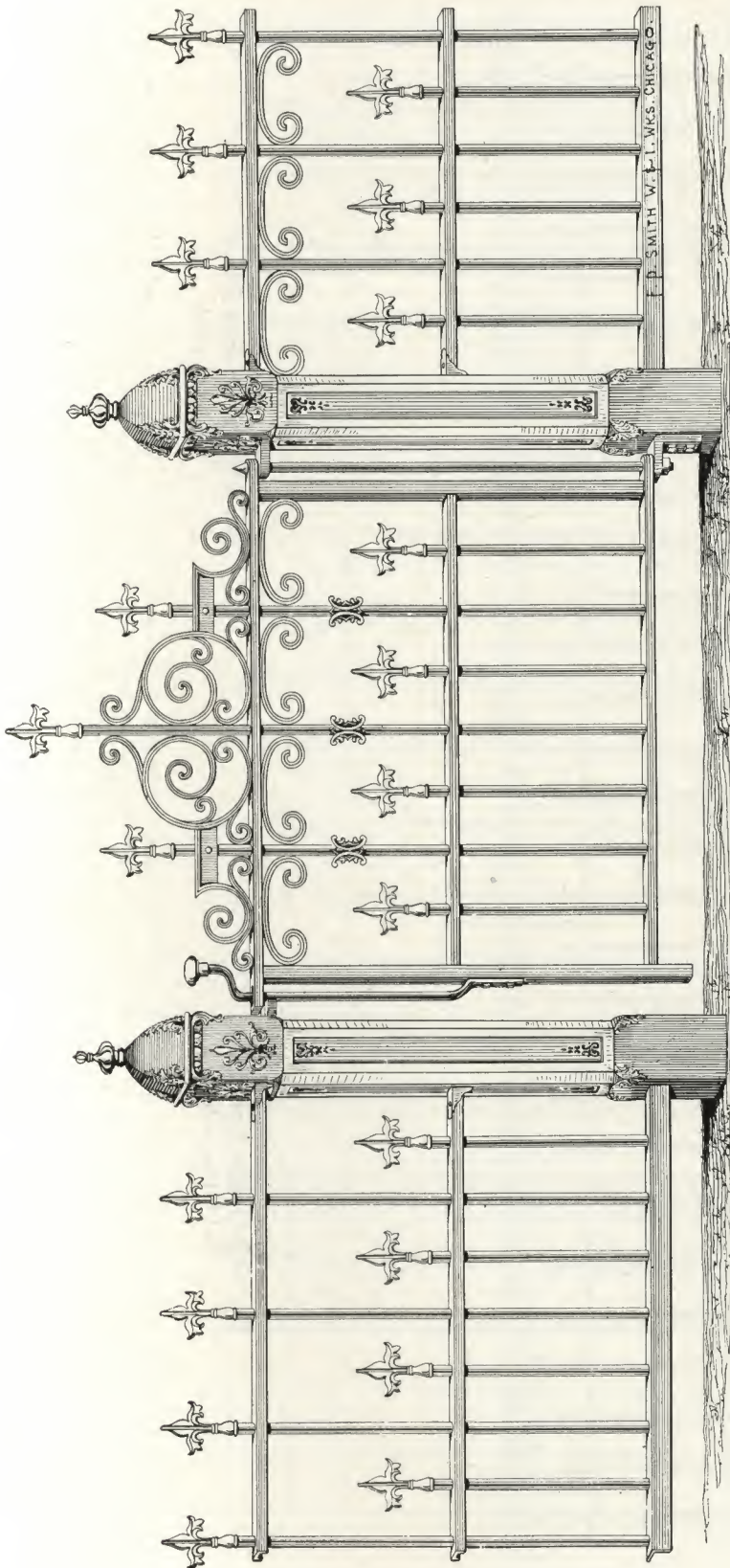
3/4-inch pickets, 56 inches high, or about	60 inches high when set,	For No. 684 Pattern	For No. 686 Pattern	For No. 685 Pattern	Large Posts for Gates and Ends Extra
62	"	\$ 6.00	\$ 6.50	\$ 6.50	Each, \$40.00
64	"	"	7.00	7.00	45.00
66	"	"	7.50	7.50	50.00
68	"	"	8.00	8.50	55.00
70	"	"	8.75	9.25	60.00
72	"	"	9.50	10.00	65.00
74	"	"	10.00	10.50	70.00
76	"	"	11.00	11.50	
78	"	"	12.00	12.50	
80	"	"	13.50	14.50	
82	"	"			
84	"	"			
86	"	"			
88	"	"			
90	"	"			
92	"	"			
94	"	"			
96	"	"			

On account of the extra labor and material, Gates are charged extra—single Gates, \$25.00; double Gates, \$50.00—and measured in the Fence.





## Iron Fences (Continued)



### No. 663 Design Iron Fence

LIST PRICE, PER LINEAL FOOT  
Including line posts.

3/8-inch pickets, 26 inches high, or about	30	34	36	40	46	52	52
1 1/8	"	"	"	"	"	"	"
1 1/4	"	"	"	"	"	"	"
1 1/2	"	"	"	"	"	"	"
1 3/4	"	"	"	"	"	"	"
2	"	"	"	"	"	"	"
2 1/4	"	"	"	"	"	"	"

### No. 665 Design Fence

To match with Rosettes as shown.

For No. 663	For No. 665
Round Pickets	Round Pickets
Pattern Square Pickets	Pattern Square Pickets
\$2.40	\$2.60
2.60	2.90
2.75	3.00
2.90	3.10
3.25	3.60
3.50	3.75
4.15	4.00
4.65	4.90
5.85	5.00
	6.40

### No. 664 Design Iron Fence

With Ornamental Scrolls under top rail.

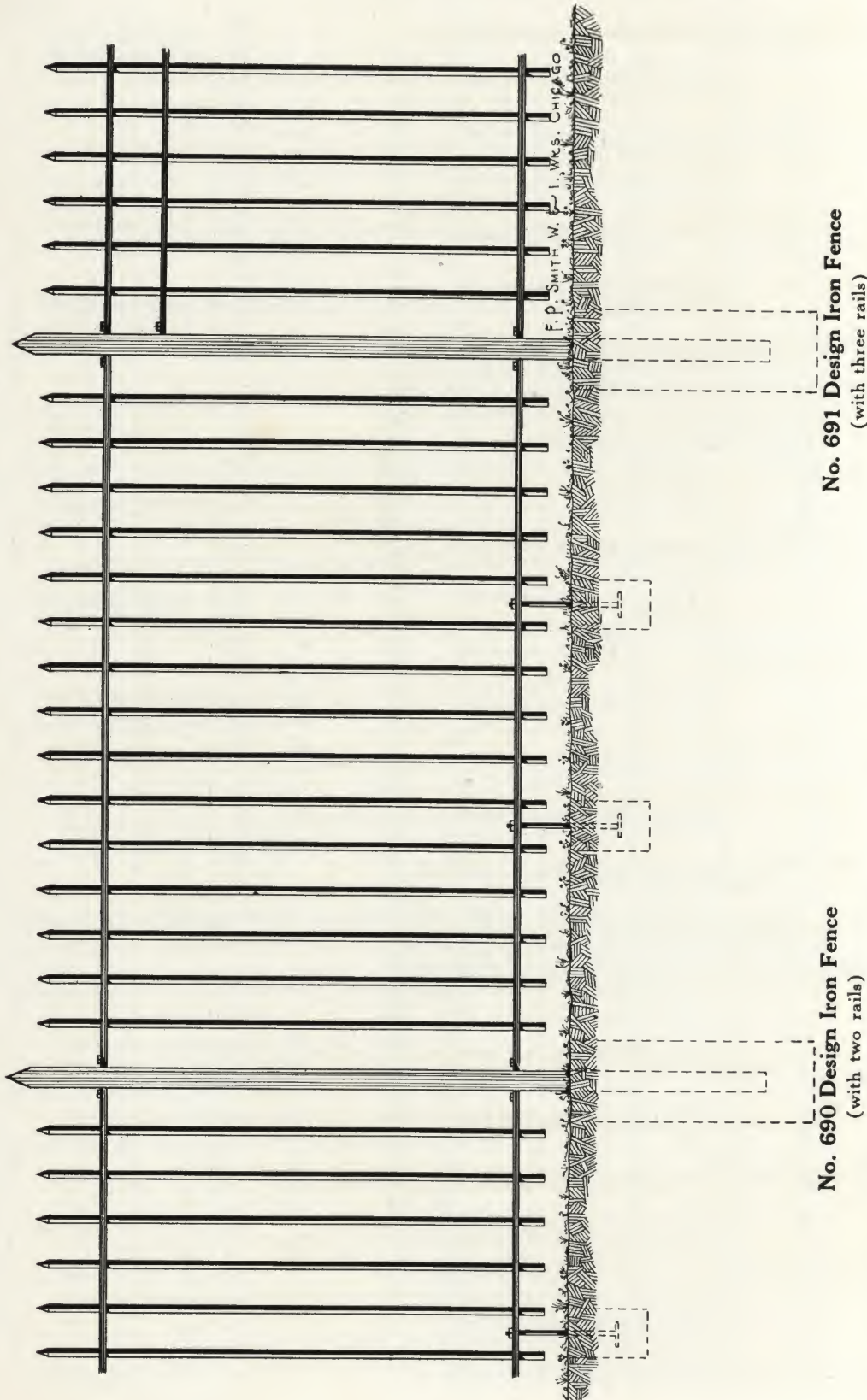
For No. 664	For No. 664	Large Posts for
Round Pickets	Pattern Square Pickets	Gates and Ends
\$2.60	\$2.90	Extra
2.90	3.10	Each, \$25.00
3.00	3.25	" " 26.50
3.10	3.40	" " 27.50
3.50	3.90	" " 30.00
3.75	4.10	" " 30.00
4.50	4.90	" " 32.50
5.00	5.40	" " 32.50
6.25	6.75	" " 35.00

Single Gates are \$25.00, and Double Gates \$50.00 extra, including Bronze Knobs, Hinges etc. Our adjustable Line Posts are used about every seven feet the entire length of the Fence, and the handsome Posts, as shown in cut, at Gates, corners and ends.





## Iron Fences (Continued)



These are plain patterns of Iron Fence, specially suitable where the requirements cover long runs of fence, of good height (generally 5 to 7 feet), strong, neat and very reasonable in price, such as for cemeteries, parks, large factories etc. The pickets are generally  $\frac{5}{8}$  or  $\frac{3}{4}$  inch square, securely fastened to heavy channel rails; the line-posts are made in one solid piece (from a three-inch I-Beam, see detail on page 106); additional supports are provided under the bottom rail, as shown; and as the line-posts and extra supports are set in concrete, great strength and rigidity are assured.

The large posts used in connection with these fences (for the gates, corners and ends) are generally made of concrete, brick etc; but iron posts can be used if preferred. Lowest net prices gladly quoted on receipt of particulars.

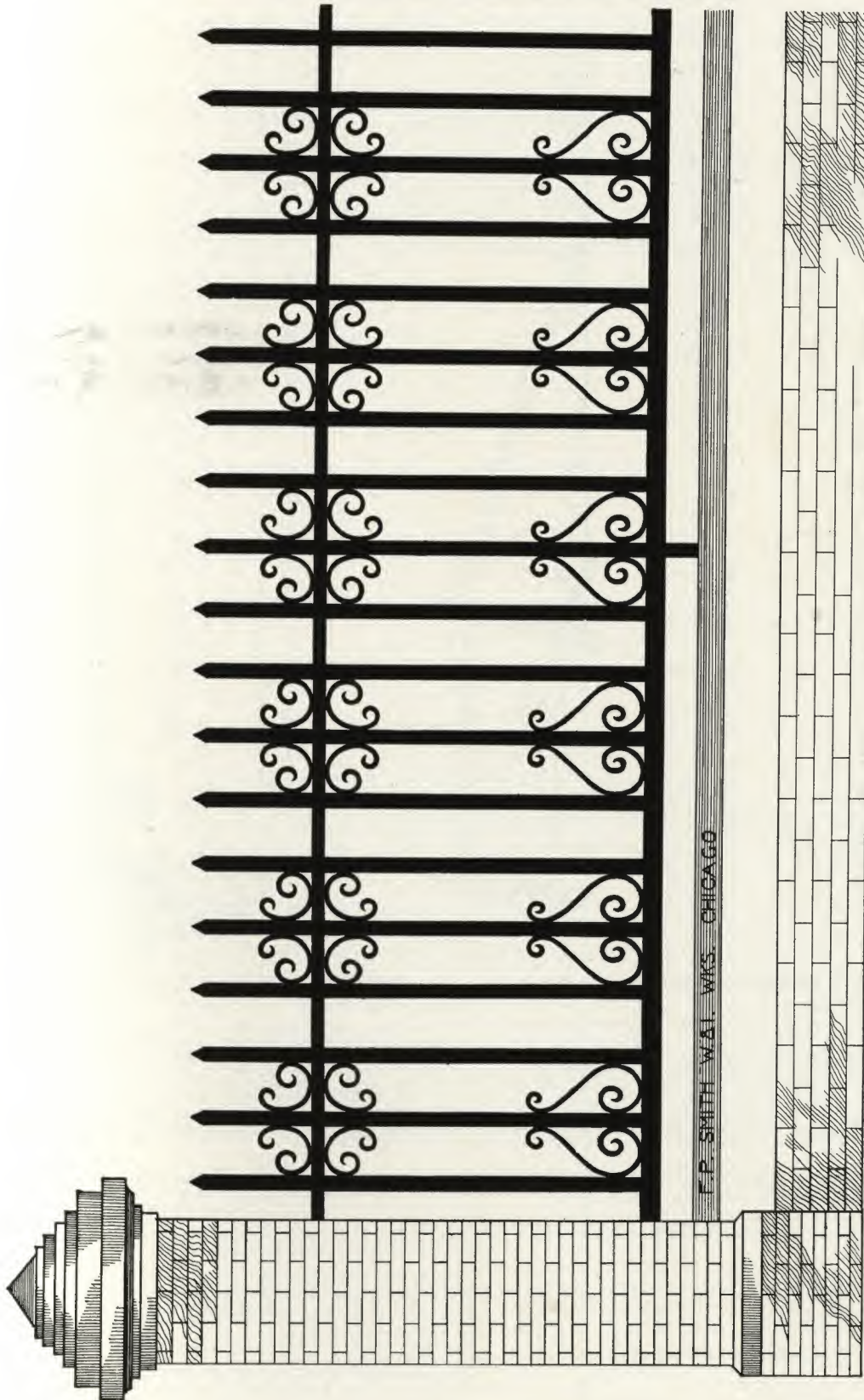




F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Iron Fences (Continued)



No. 190 Design Ornamental Iron Fence

This is a very neat and striking pattern of Ornamental Fence at a very reasonable price. Can be made any height and to go into ground, instead of on coping, if desired. Prices quoted on application.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**

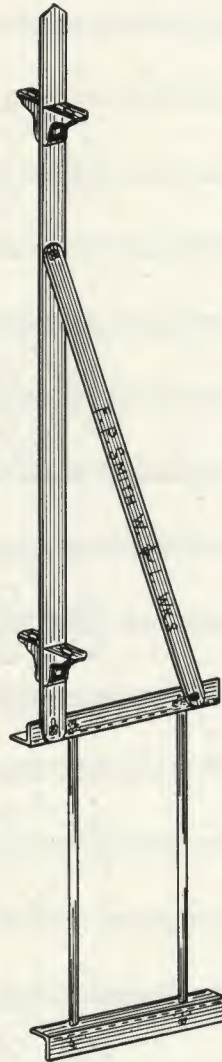


## Iron Fences (Continued)

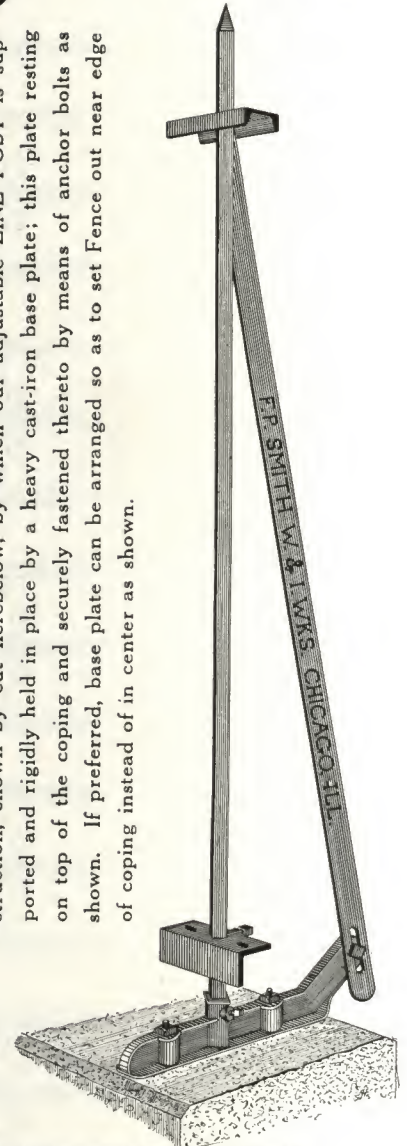


Our Three-inch I-Beam Line Post shown above is especially adapted for high, heavy iron fences, such as used in cemeteries, parks, large play-grounds etc. It is generally run solid into ground and bedded into a concrete foundation, as shown.

Our Standard Adjustable Line Post shown by illustration herebelow, with iron foundation extending into ground and constructed so as to resist the action of the frost, is set every 7 feet throughout entire length of fence, supporting and connecting the various panels and strengthening the fence.



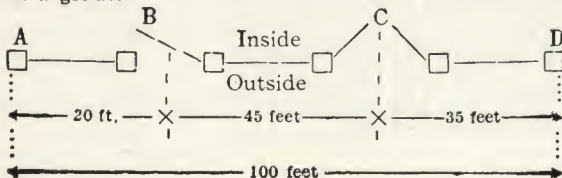
Where Iron Fences rest on stone or concrete coping we use our improved construction, shown by cut herebelow, by which our adjustable LINE POST is supported and rigidly held in place by a heavy cast-iron base plate; this plate resting on top of the coping and securely fastened thereto by means of anchor bolts as shown. If preferred, base plate can be arranged so as to set Fence out near edge of coping instead of in center as shown.



### DIRECTIONS FOR MEASURING FENCE,

#### Example:

1. Give total length of Fence thus—"A" to "D" 100 feet as shown in diagram below.
2. Give distance from outside of end post "A" to center of first gate "B."
3. Give distance from center of first gate "B" to center of second gate "C."
4. Give distance from center of second gate "C" to outside of end post "D."
5. Indicate location of large posts thus: ☐
6. Indicate direction gates should swing by a line drawn from the posts to which they are hinged.
7. State which is outside of fence, and if ground is level or on a grade.



### DIRECTIONS FOR ESTIMATING COST

Fence as per example.

100 feet No. 680 Pattern, $\frac{1}{2}$ in. Round Pickets, 32 in. high or 36 in. high when set, at \$2.40.....	\$240.00
6 No. 680 Tubular Posts at Gates and Ends, at \$13.50, including iron ground foundation.....	81.00
1 No. 680 Single Gate, at \$25.00.....	25.00
1 No. 680 Double Gate, at \$50.00.....	50.00

Total.....\$396.00  
Less Discount.....

As appears in above estimate, Fence is charged at list price, per lineal foot for entire length, including line posts and foundations. Large posts with iron foundations and gates are charged extra—posts on account of extra weight and labor. The width of gates is measured in total length of Fence, the extra charge being to cover additional labor and material, such as bronze knobs, hinges, ornamental tops etc.

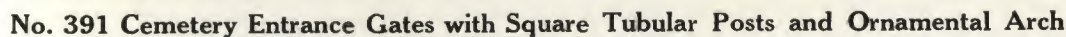
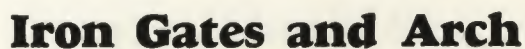
This is the only equitable method of charging for Fence, as it would be manifestly unjust to charge same net price per lineal foot for 100 feet of Fence requiring but two large posts and no gates, as for one of 100 feet to include six large posts and one single gate and one double gate.

Standard width of single gate is 3 feet 6 inches, and of double gate 9 feet, but they can be made any desired width.

Extra charge is made, according to additional labor involved, for exceptional grades, curves and irregularly shaped pieces.

If Fence is to set on stone coping, give width and height of stone.





List	Price of Gate with	1/2-in. Round Pickets,	40 inches high from ground at sides,	without Posts	...	\$100.00	Square Pickets
"	"	"	"	"	"	140.00	110.00
"	"	"	"	"	"	110.00	125.00
"	"	"	"	"	"	150.00	165.00

Page 107

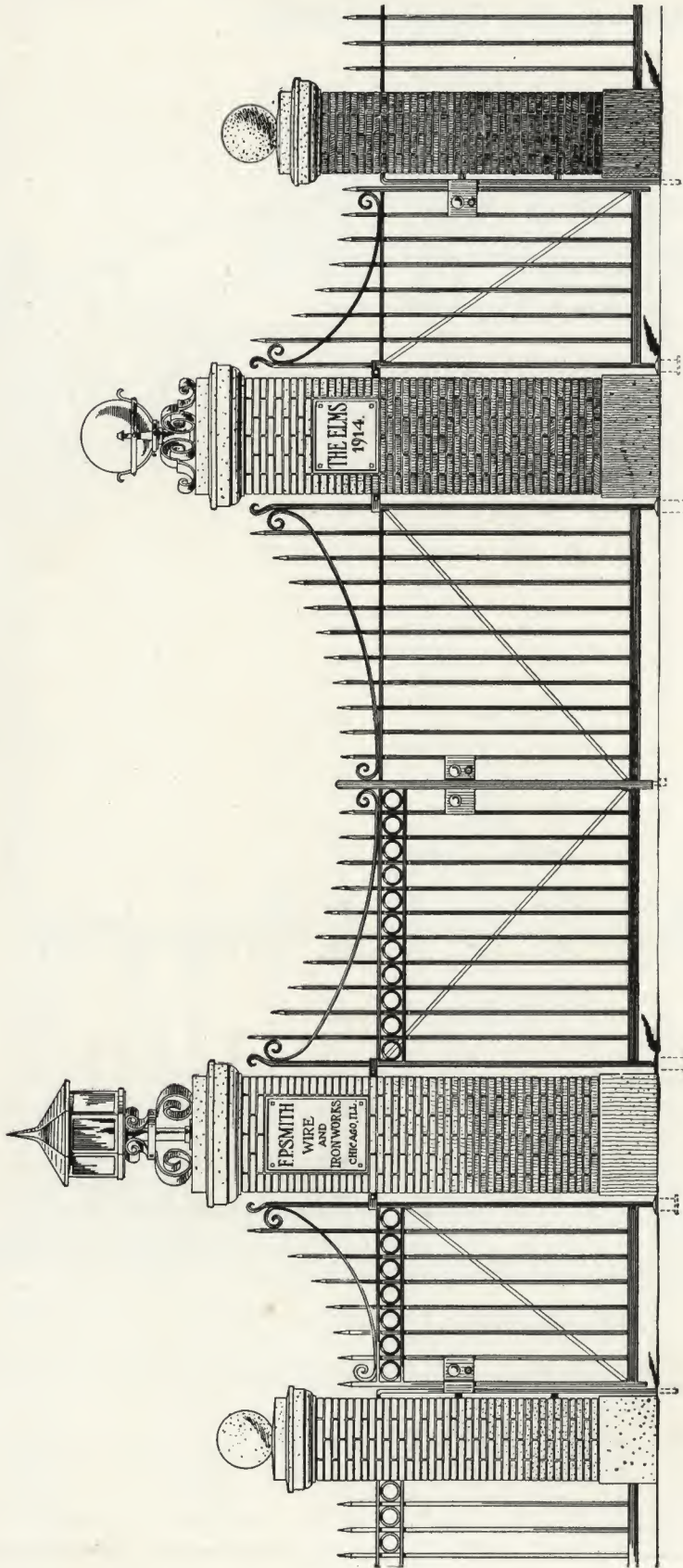




**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Iron Gates



**No. 605 Entrance Gates**

Also showing No. 8 Iron Lamp.

**No. 602 Entrance Gates**

Also showing No. 9 Iron Lamp.

These are neat and artistic designs of Iron Gates and Lamps, on which we would be pleased to quote price on application.

Iron Posts can be used, instead of brick piers, if preferred. Gates can be made any width and height required.

We also make Bronze Tablets, as shown on the brick piers in the above cut, in any size and with any inscription desired.

(For Lamps, see also pages 99 and 115.)



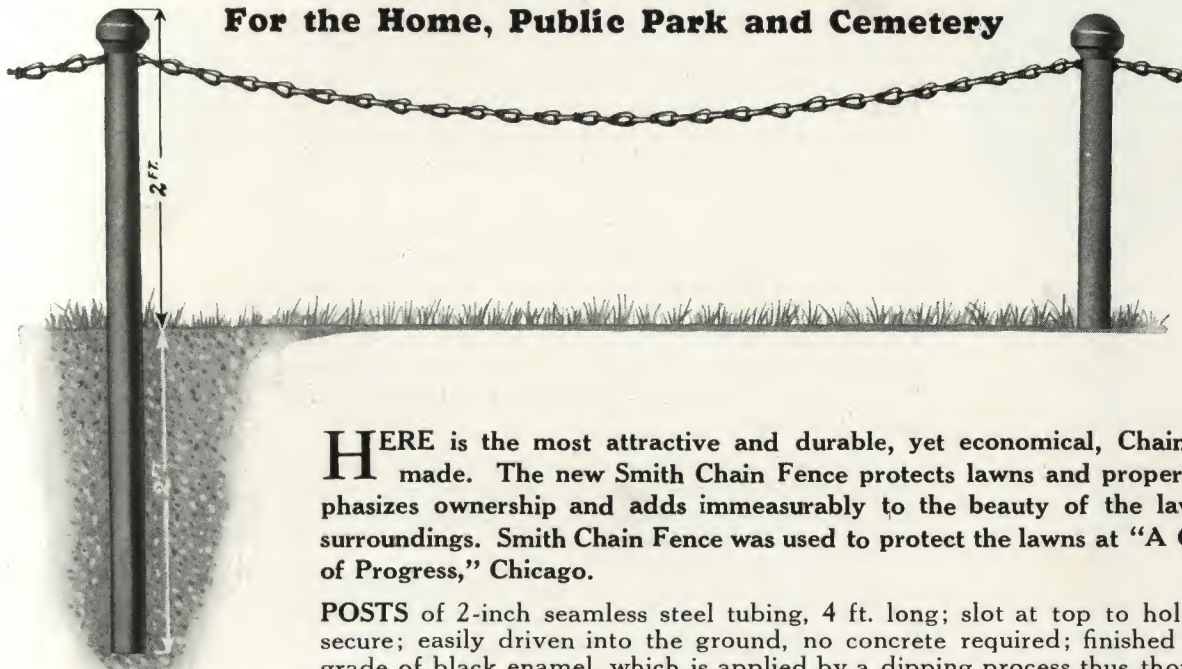


**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Smith Chain Fence

**For the Home, Public Park and Cemetery**



**H**ERE is the most attractive and durable, yet economical, Chain Fence made. The new Smith Chain Fence protects lawns and property, emphasizes ownership and adds immeasurably to the beauty of the lawn and surroundings. Smith Chain Fence was used to protect the lawns at "A Century of Progress," Chicago.

**POSTS** of 2-inch seamless steel tubing, 4 ft. long; slot at top to hold chain secure; easily driven into the ground, no concrete required; finished in best grade of black enamel, which is applied by a dipping process thus thoroughly coating both inside and outside.

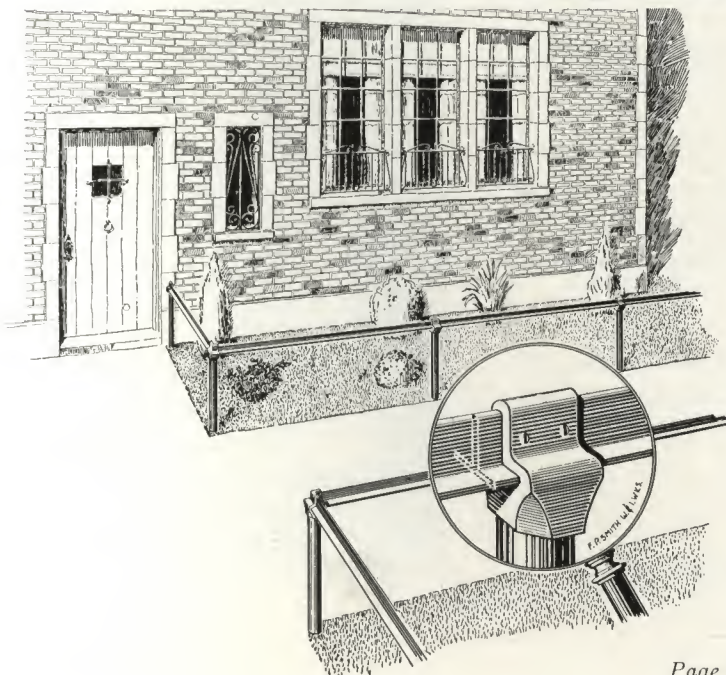
**CAPS** of heavy iron attached to post by a special set screw which prevents their being pulled off; finished in aluminum bronze.

**CHAIN** of best grade of steel, hot galvanized, thus making it impervious to rust; in long continuous lengths, no cutting nor waste.

### PRICE

Post with Cap .....each **\$1.20** Chain, galvanized .....per foot **9c**  
Driver, for easily setting posts.....each **\$2.00**  
Posts are usually set from 8 ft. to 10 ft. apart.

## "T" Type Lawn Fence



This is a new type of sturdy and economical lawn protection. The "T" rail, with leg set up, serves as both fence and loafers' guard. It is especially designed to fulfill a long-needed requirement for a lawn fence with a rail, which is too uncomfortable for boys to sit on and uninviting to walk on.

**RAIL** of 1½"x1½"x3/16" high carbon steel "T".

**POSTS** of 2" outside diameter seamless steel tube, 4' long; easily driven into the ground, no concrete required.

**CAPS** of malleable iron attached to posts and rail by headless set screws.

All parts dip painted with a special black paint, coating both the inside and outside.

Posts are set approximately 7' apart and 2' into the ground.

### PRICE LIST

Rail.....per foot, **\$0.15**  
Intermediate or End Posts, with caps.....each, **1.20**  
Corner Posts with caps.....each, **1.50**  
Can be furnished Hot Galvanized at extra charge.

**DISCOUNT TO THE TRADE**

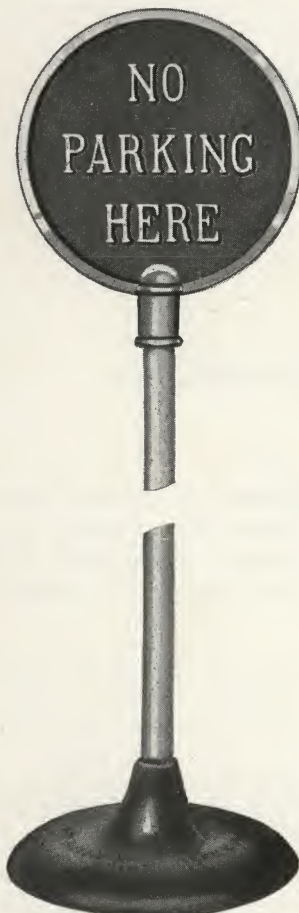




# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Smith Parking Signs



No. 2

SMITH PARKING SIGNS for regulating parking are substantially built for permanency, all parts being extra heavy, and they can be depended on to always give satisfaction under the most strenuous service. They are not to be compared with imitations on the market similar in design, but made of much lighter material, which are easily broken, or destroyed by the elements.

The plates for our signs are cast from special aluminum alloy, making them impervious to corrosion and difficult to break, should the sign become tipped. The plates measure 12 inches in diameter, are double faced, with border and lettering on both sides. Both the border and letters are raised above the background. Our stock designs are finished with black lacquer background and letters in the natural aluminum.

The base is made of heavy pure grey iron. It measures 12½ inches in diameter and is of a design not easily tipped. Also equipped with holes for attaching to sidewalk or pavement by bolts or lag screws.

The Tubular Post is 1¾ inches in diameter, of the best grade of steel, hot galvanized and finished with aluminum bronze. Sign, complete, measures 50 inches high.

Price .....each, \$15.00

The above price is for the two designs shown on this page. Other lettering within the limits of size of sign can be furnished.

Signs can be furnished without base, and instead with extended post to imbed into sidewalk or ground, at a reduction in price.



No. 3

### Suggestions for Other Lettering

- No Parking, City Ordinance
- Keep to Right—Safety Zone
- No Parking, Unloading Zone
- No Parking Between Signs
- Driveway—No Parking
- Cab Station—No Parking
- No Parking to Corner
- One Hour Parking
- School, Slow Down
- Service Driveway

## No. 32 Steel Clothes Post

A convenient and permanent addition to the home.

Constructed of 2 in. diameter heavy seamless steel tubing, 8½ ft. long, with heavy iron acorn cap and cross arm. Cap is provided with a set screw to hold securely in place and arms have rounded ends to prevent injury.

All parts are heavily hot galvanized inside and out for maximum durability. We recommend setting into concrete.

Price, each .....\$2.50

DISCOUNT TO THE TRADE







# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Smith Steel Flag Poles

Made of full weight tested pipe in two types, Heavy and Extra Heavy. Our Flag Poles are furnished complete with our Standard Cast Iron Roller Bearing Truck, which is fitted to slide over 2" or 2½" I. D. pipe and tapped at top for ¾" I. D. pipe to receive stem of Copper Ball or other ornament. A Copper Ball, gilded with 22k. gold leaf and a Cleat for halyard are supplied with all poles. (Halyard not included.) Poles are finished with the best grade of graphite paint.

### HEAVY TYPE

No.	Full Height	Height above ground	Pipe Sizes	Price, Complete
10	20 ft.	17 ft.	3" and 2"	\$ 56.25
11	28½ ft.	25 ft.	3" and 2"	67.50
12	37 ft.	33 ft.	3" and 2"	85.00
13	54 ft.	50 ft.	4", 3½", 3", 2"	120.00
14	63 ft.	58 ft.	4", 3½", 3", 2"	160.00
15	72 ft.	66 ft.	4½", 4", 3½", 3", 2"	225.00
16	79 ft.	73 ft.	4½", 4", 3½", 3", 2"	250.00
17	87 ft.	80 ft.	5", 4½", 4", 3½", 3", 2"	370.00
18	98 ft.	90 ft.	6", 5", 4½", 4", 3½", 3", 2½"	380.00
19	108 ft.	100 ft.	7", 6", 5", 4½", 4", 3½", 3", 2½"	400.00

### EXTRA HEAVY TYPE

No.	Full Height	Height above ground	Pipe Sizes	Price, Complete
20	20 ft.	17 ft.	3" and 2½"	\$ 70.00
21	28½ ft.	25 ft.	3" and 2½"	85.00
22	37 ft.	33 ft.	3" and 2½"	100.00
23	54 ft.	50 ft.	4½", 4", 3½", 3", 2½"	150.00
24	63 ft.	58 ft.	4½", 4", 3½", 3", 2½"	200.00
25	72 ft.	66 ft.	5", 4½", 4", 3½", 3", 2½"	275.00
26	79 ft.	73 ft.	5", 4½", 4", 3½", 3", 2½"	300.00
27	87 ft.	80 ft.	6", 5", 4½", 4", 3½", 3", 2½"	445.00
28	98 ft.	90 ft.	7", 6", 5", 4½", 4", 3½", 3", 2½"	475.00
29	108 ft.	100 ft.	8", 7", 6", 5", 4½", 4", 3½", 3", 2½"	525.00

All Pipe Sizes are Inside Diameter

If our Special Bronze Ball Bearing Truck is preferred, add \$16.00 to list for 2" pipe or \$18.00 for 2½" pipe.

### TRUCKS

Trucks are sold separately at the following prices:

Special Bronze Ball Bearing Revolving Trucks, body cast bronze, with two rows of ⅜" manganese bronze bearings. Threaded to screw on 2" or 2½" I. D. pipe.

No. 2 Bronze Truck for 2" pipe.....	each, \$30.00
No. 3 Bronze Truck for 2½" pipe.....	each, 32.00

Standard Cast Iron Roller Bearing Truck:

No. 4 Iron Truck for 2" pipe.....	each, \$14.00
No. 5 Iron Truck for 2½" pipe.....	each, 16.00

## "Re-move-able" Steel Flag Poles

For lighter and less expensive Flag Poles than our Standard Steel Flag Poles listed above, we offer this type.

These Poles will give long service, as they are made of galvanized high carbon steel tubing and pipe. Poles up to 25 ft. in height are reinforced with concrete.

The poles are in sections that telescope into each other, thus making double strength at the joint. This is preferable to using reducing couplings, as cutting the thread weakens the joint.

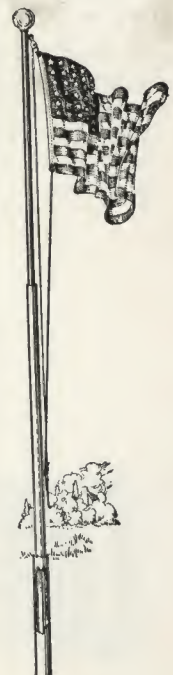
No skill is required to set the socket, put the sections together and erect the pole.

Without extra charge Copper Balls, gilded with 22k. gold leaf, and galvanized steel chain halyards, are supplied with all poles, and they are also painted aluminum or white.

### PRICE LIST

No.	Height above ground	Copper Ball	Socket	Lowest section	Price, complete	No.	Height above ground	Copper Ball	Socket	Lowest section	Price, complete
30	15 ft.	4 in.	2 in.	1½ in.	\$18.00	35	40 ft.	6 in.	4 in.	3½ in.	\$54.75
31	20 ft.	4 in.	2½ in.	2 in.	24.00	36	45 ft.	7 in.	4 in.	3½ in.	75.00
32	25 ft.	4 in.	3 in.	2½ in.	32.25	37	50 ft.	8 in.	5 in.	4½ in.	99.00
33	30 ft.	5 in.	3½ in.	3 in.	39.75	38	60 ft.	8 in.	5½ in.	5 in.	112.50
34	35 ft.	6 in.	3½ in.	3 in.	48.00	39	70 ft.	9 in.	6 in.	5½ in.	144.00

### DISCOUNT TO THE TRADE







# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## Area Grating



No. 40 Wrought Iron Area Grating

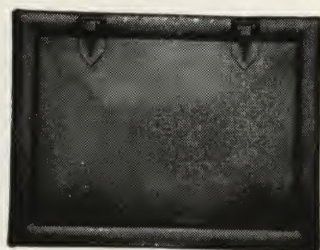
Frame  $2\frac{1}{4} \times \frac{3}{8}$  inch; bars  $1\frac{1}{2} \times \frac{1}{4}$  inch; space  $1\frac{1}{4}$  inch;  $\frac{3}{8}$  inch rod through separating spools in center.

Price per square foot .....\$4.00

For Grating containing less than seven square feet, extra price.

For sidewalk in front of store windows. They are made to set into concrete or wood frame work. Can be arranged to open on hinges, at an additional charge.

## Coal Window



No. 84 Coal Window

Made of Rust Resisting Copper Steel. Door has cast iron latch which can only be opened from the inside. Slotted hinges keep door in raised position when open. Suitable for walls 9" thick or more.

Height overall, 20"; width overall,  $26\frac{1}{2}$ "; size opening,  $14 \times 21$ "; weight, each, 34 lbs. Requires wall opening 17" high by 23" wide.

Price .....each, \$10.50

## Threshold

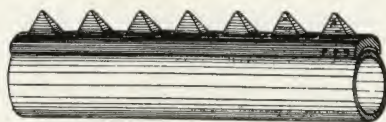


No. 5 Wrought Steel Threshold, 4 inches wide. Price per lineal foot, painted.....\$1.50

This Threshold is provided with counter-sunk holes for screws or expansion bolts.

We can also furnish Thresholds of cast iron and cast or wrought brass or bronze. Designs will be mailed on application.

## Loafers' Guard



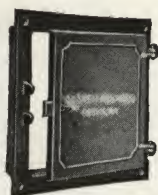
No. 10. LOAFERS' GUARD

Made in CAST IRON and is generally used for top of tubular iron railings. Size, 1 inch wide by 1 inch high. Will fit any ordinary size rail. Painted and drilled for screws or expansion bolts. Price per foot .....\$0.50

Our Loafers' Guard can be used either for round rails or on flat surfaces, such as window sills, flat rails, etc.

We also make to order Loafers' Guards of steel, bronze, etc., in any desired shape, size or finish. Send particulars for estimates.

## Ash Pit Doors



No. 11

Cleanout Doors for use at bottom of chimney flues. Regularly open from left to right. Can, however, be inverted to open from right to left.

DISCOUNT TO THE TRADE

Size, inches

Weight, Doz. Lbs.

List Price, Doz.

6x8	62	\$11.60
7x9	66	12.00
8x8	72	12.00
8x10	84	13.20
10x12	114	18.00
12x12	180	28.80
12x15	204	36.00





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



### Turnstiles for Amusement Parks, R. R. Stations, Etc.

Standard made of heavy cast iron.

The revolving arms are of wrought iron pipe and are controlled by a ratchet-and-dog attachment contained within the cap at top of standard.

Foot Control can be provided, if desired, at a slight additional charge.



We can also furnish Registering Turnstiles.

Illustrations and prices will be mailed on request.

In ordering, specify direction of rotation, whether clockwise or counter-clockwise.

**No. 11 Plain Turnstile**

Height 37 inches. Diameter is usually 4 feet.  
Price, painted .....each, \$50.00

### Area Railing



**No. 49 Iron Area Railing**

A gate is provided, arranged to lock with a padlock, when either closed or open. When gate is locked in open position, the hasp extends through the upright bar shown in illustration. Locked gates prevent children from swinging on them, avoiding accidents.

Our Iron Area Railings provide substantial and efficient protection around areaways, stairways, balconies, fly-wheels, pits and many other places. They can be furnished of any size pipe and to suit every situation conceivable.

Iron loafers' guard (illustrated on page 112), can be attached on top of upper rail, if desired.

PRICES WILL BE QUOTED ON RECEIPT OF PARTICULARS.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**

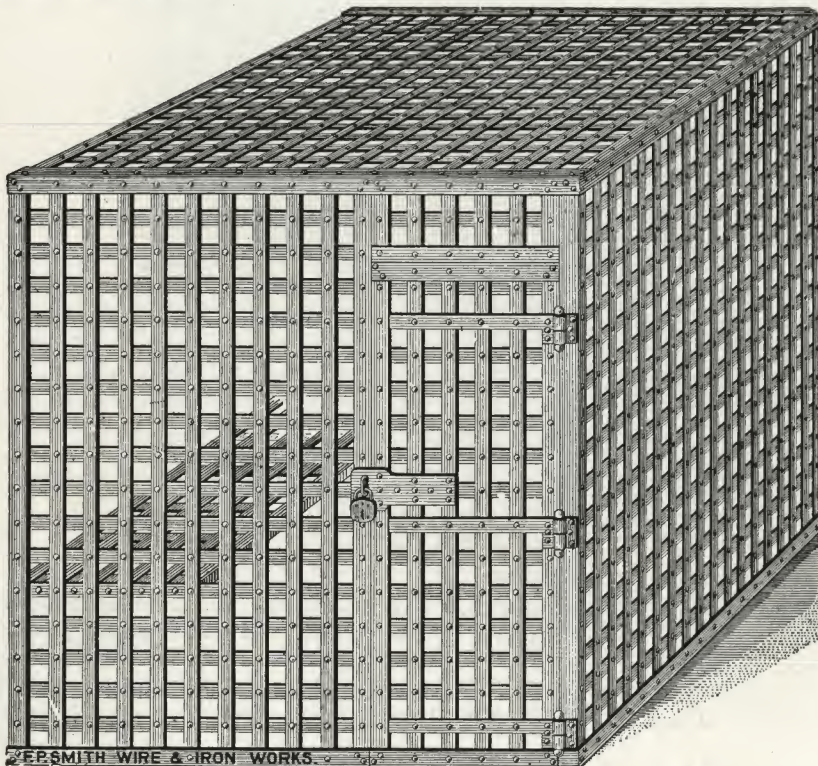


## **Animal Cages**



Illustration No. 22

We are equipped to furnish everything in Animal and Bird Cages of either Iron or Wire Mesh for the public or private zoo.



No. 6 Open Hearth Steel Lattice Jail Cell.

## **Jail Cells**

Our Open Hearth Steel Lattice Jail Cells are substantially constructed to last indefinitely and during their long period on the market they have proven to be the most suitable Jail Cell for the town or village lock-up.

They are built so that additional cells to match can be easily added as the needs demand or conditions change.

Single Cells are usually made 4 ft. 6 in. x 6 ft. 6 in. x 6 ft. 6 in. high; or 5 ft. x 6 ft. 6 in. x 6 ft. 6 in. high. These Cells can be joined together in a row of two or more Cells at a proportionately less price than the cost of single Cells.

Prices will be quoted on request.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Exterior Lighting Fixtures

FOR PUBLIC BUILDINGS, APARTMENTS, ETC.



No. 2290

Hexagonal Lantern, 19" high, 14" wide; height overall, 37"; base, 13" diameter.

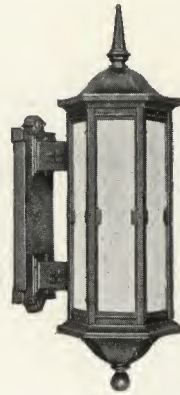
Price in Iron . . . \$ 48.00  
Price in Bronze.. 118.00



No. 3060

Octagonal Iron Lantern 5' 3" high overall, 12 1/2" wide; extreme projection, 20 1/2"; wall plate, 11" square.

Price . . . . . \$193.00



No. 4600

Hexagonal Lantern 22" high, 9 1/4" wide; height overall, 32"; wall plate 18" high, 5 1/4" wide; wall to center of lantern, 10".  
Price in Iron . . . \$ 39.00  
Price in Bronze.. 102.00



No. 5260

Hexagonal Lantern 29 1/2" high overall, 7" wide; wall plate 15" high, 4" wide; wall to center of lantern, 7 1/4".  
Price in Iron . . . \$38.00  
Price in Bronze.. 82.00



No. 1200

Iron Base, 12" or 16" square. Height to bottom of globe:

4 ft. . . . . \$66.00  
6 ft. . . . . 72.00  
7 ft. . . . . 72.00  
9 ft. . . . . 88.00  
10 ft. . . . . 99.00

Globe Holders 5 1/4", 6 1/4", 7 1/4" diameter.



No. 3890

Hexagonal Iron Lantern 18 1/2" high, 12 1/2" wide; Wrought Iron Scroll Arch 2' high, 7' wide.

Price, Lantern only . . . . . \$ 83.00  
Price, Lantern and Arch, complete . . . . . 240.00

Iron Fixtures are made of fine cast iron, painted one shop coat.

Bronze Fixtures are made of solid cast bronze, in statuary bronze finish, not polished or chased.

Prices include the furnishing of moss glass (or equal) with plain edges for lanterns. Glass Balls for Standards are not included.



No. 5310

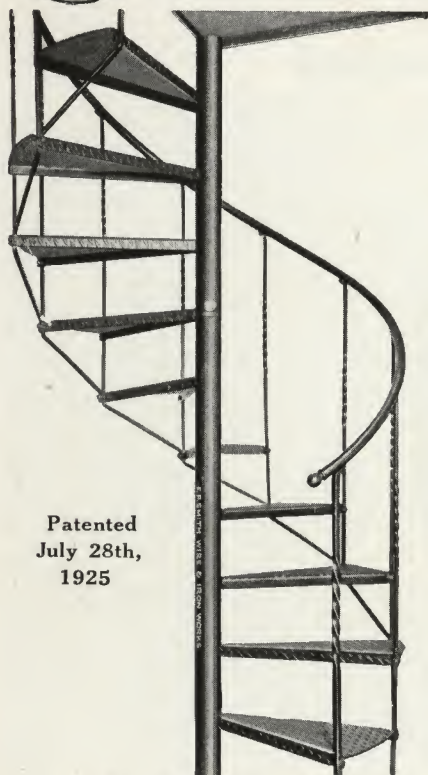
Hexagonal Lantern 24" high, 9 1/4" wide. Height overall and price:

	In Iron	In Bronze
6 ft. 10 in.	\$ 92.00	\$230.00
8 ft. 4 in.	106.00	274.00
10 ft.	122.00	332.00





# F.P. SMITH WIRE AND IRON WORKS, CHICAGO



Patented  
July 28th,  
1925

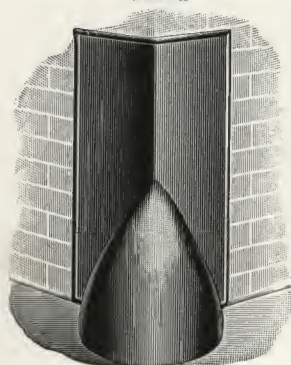
No. 40 Spiral Stairway

The Spiral Stairway illustrated above is designed and built along scientific lines, producing the utmost strength in the most economical way. It is made entirely of wrought steel with no cast iron parts to become easily broken. Can be furnished in different diameters and either right or left hand, to suit various conditions. This stairway can be erected by one man.

Prices will be quoted on application.

We manufacture all types of iron and steel stairways.

Cast Iron Corner Wheel Guard

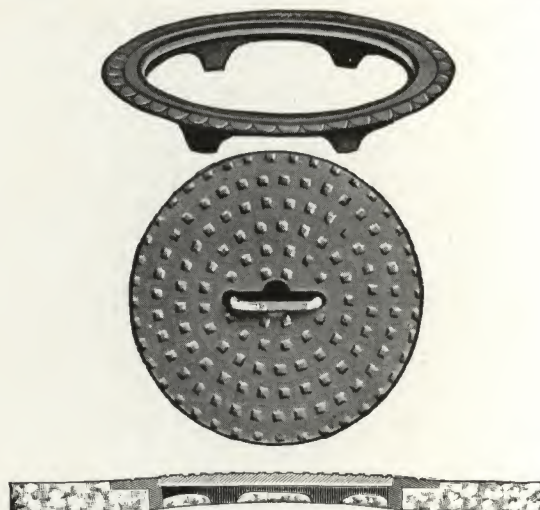


This Wheel Guard is made of heavy cast iron and affords substantial protection for corners of buildings, doorways and interior pillars.

No. 51. Size, 7½ inches wide and 24 inches high.  
Price.....each, \$18.00

Width given is size inside of each side.

## Flush Coal Hole Covers and Frames



### COMPLETE

No.	Weight	List Price
10—15-in. opening, Ring Frame and Cover....	35 lbs.	\$ 6.85
60—18-in. opening, Ring Frame and Cover....	48 lbs.	9.30
20—20-in. opening, Ring Frame and Cover....	57 lbs.	11.10
70—24-in. opening, Ring Frame and Cover....	72 lbs.	14.15

### COVERS ONLY

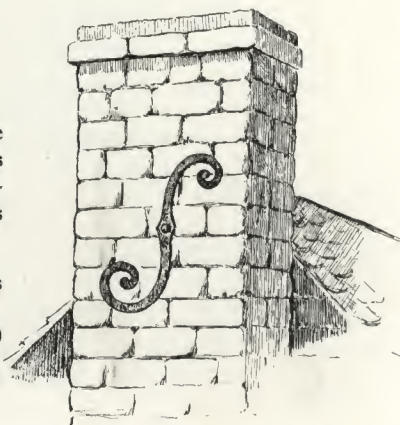
No.	Weight	List Price
10 . . . . .	20 lbs.	\$ 3.90
60 . . . . .	30 lbs.	5.80
20 . . . . .	40 lbs.	7.80
70 . . . . .	52 lbs.	10.25

These Coal Hole Covers are of medium weight for use in sidewalks, courts and similar locations. The covers are strongly reinforced on the under side and are provided with a tie ring so that they can be secured by a chain or bar from below. The covers have also a ½" flush lifting handle which drops below the surface of the cover when not in use.

The frames are designed to be set in concrete or cement.

Each Cover is reinforced by bars 1" wide joined in a triangle on under side of cover, set back ½" from rim.

To obtain weight and price of frame alone deduct cover from weight and price of cover and frame complete as listed above.



No. 33

Chimney ornament with anchor rod.

All wrought iron, painted black.

Ornament 2' 3" long.

Price, each complete  
.... \$15.00

Special sizes and designs made to order





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



**STRAUS BUILDING**

Chicago

Graham, Anderson, Probst & White, Archts.

### Fire Escapes

We are extensive manufacturers of fire escapes of various types and designs built in accordance with the specifications of the State or City where the work is to be installed. We use nothing but the best materials and the work is fabricated in our shops by skilled mechanics, thus guaranteeing a first class, satisfactory job in every respect; we can also take care of the erection, in any part of the country, when so desired by customer.



**APARTMENT HOTEL**

Chicago

We have installed numerous **Fire Escapes** throughout the country on school buildings, public and theatre buildings, factories, private and public institutions and hospitals. In Chicago our installations include the new Palmer House Hotel, Old and New Masonic Temples, Straus Bldg., Fisher Bldg., Blackstone Hotel, Harris Trust Bldg., Montgomery Ward & Co., Oriental, Granada, Marbro, Olympic, Selwyn, Harris and many other theatres. Also numerous apartment buildings and private residences.

CATALOG AND ESTIMATES UPON APPLICATION.

### Escapement Stairs For Mine Shafts



ONE OF OUR MANY INSTALLATIONS  
MINE No. 3 O'GARA COAL CO.  
HARRISBURG, ILLINOIS

Another one of our specialties is the manufacture of **Steel Escapement Stairs** for Mine Shafts. We have equipped numerous Mines with this type of stair, making them in various widths and specifications to suit the conditions of their respective locations. The materials used in the fabrication of these stairs are heavier than outside fire escapes on account of corrosion in the damp atmosphere of mine shafts. For estimates kindly furnish us with the depth and size of the shaft, and state the nature of the shaft's lining.





F.P. SMITH WIRE AND IRON WORKS, CHICAGO



## The "SURANSAFE" Removable Window Guard

Trade Mark

Patented

**"PREVENTS BURGLARS BREAKING IN AND CHILDREN FALLING OUT"**

**Adjustable — Self-locking — Interchangeable**

It is estimated that  $8\frac{1}{2}$  BURGLARS, out of every 10, come in through the windows; when they get in, the results, as everyone knows, are nearly always serious, sometimes even fatal.

The remedy, obviously, is to GUARD ALL WINDOWS which can easily be entered from the outside. But it has been very hard, in fact, almost impossible, to do this in a satisfactory way.

BUT NOW, all you have to do is to get a

### "Suransafe" Removable Window Guard

for any window that requires protection, and when you JUST SEE IT on the window, you know that YOUR TROUBLES ARE OVER because: IT LOCKS itself; YOU don't have to worry about locking it.

When you want to close the window, just put it down; you are PROTECTED, without worrying about any sashlock. If you want the window open, just raise it, AS FAR AS YOU WISH; it makes no difference whether it is an inch, or a foot, or all the way up.

And as for REMOVING the guard, it can be taken out instantly, just to clean the window, etc., or it can be left in all the time, and only removed in emergencies.

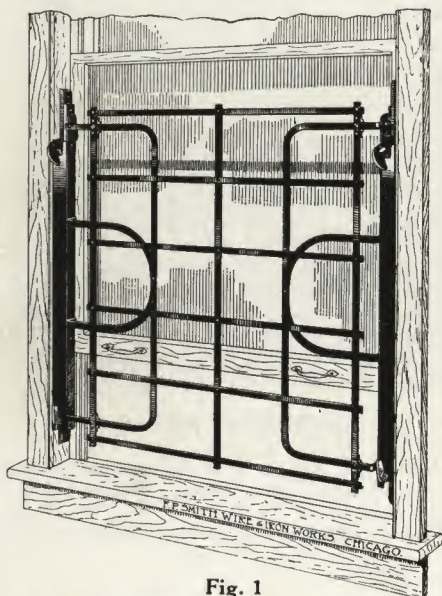


Fig. 1

The "SURANSAFE" Removable Window Guard in Position  
(View from Inside)



Fig. 6

"GUARD YOUR TREASURES"

The removing, however, CANNOT be done FROM THE OUTSIDE, but ONLY FROM THE INSIDE, as the guard is applied on the INSIDE of the window, and is released ONLY when the window is SHUT DOWN.

The locking and releasing are effected WITHOUT locks, bolts, keys, etc., by simply raising or lowering the window (see Figs. 2 and 3).

Another advantage of this guard is that it is ADJUSTABLE, and the range of adjustment is very wide; the STANDARD size will fit ANY ORDINARY WINDOW, i. e., from 28 to 44 inches in width, and from 27 to 42 inches in height (of lower sash).

This standard size guard is kept IN STOCK, ready for IMMEDIATE DELIVERY.

Furthermore, on account of the wide range of adjustment, the VERY SAME GUARD will fit OTHER WINDOWS of different size, avoiding the necessity of buying new guards when moving, etc.

The INSTALLATION is also very simple, as it only requires putting in a few screws to attach the stationary side bars to the window casing; directions accompany every order.

The construction is strong (all steel), but light, and the guards can therefore be handled with ease.

The 'SURANSAFE' REMOVABLE WINDOW GUARD is applied to the LOWER sash of the window, as shown in the various illustrations. The UPPER sash is generally held securely in place with a fastener which we furnish (see Fig. 4).

### LIST PRICE

of STANDARD GUARD fitting windows 28 to 44 inches in width and 27 to 42 inches in height (of lower sash).  
EACH, \$15.00, complete, finished black.

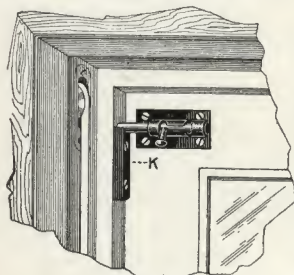


Fig. 4

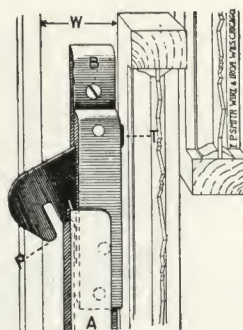


Fig. 2

(Window Open)

Detail showing locking member held in locked position by raised lower sash, preventing removal of guard.

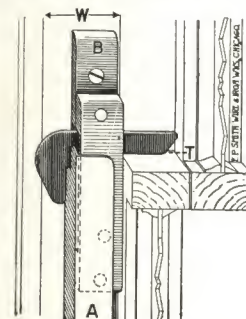


Fig. 3

(Window Closed)

Detail showing locking member released and swung over top of lower sash, allowing guard to be removed.

PRICES on SPECIAL SIZES, SPECIAL MATERIAL or FINISH quoted on application





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



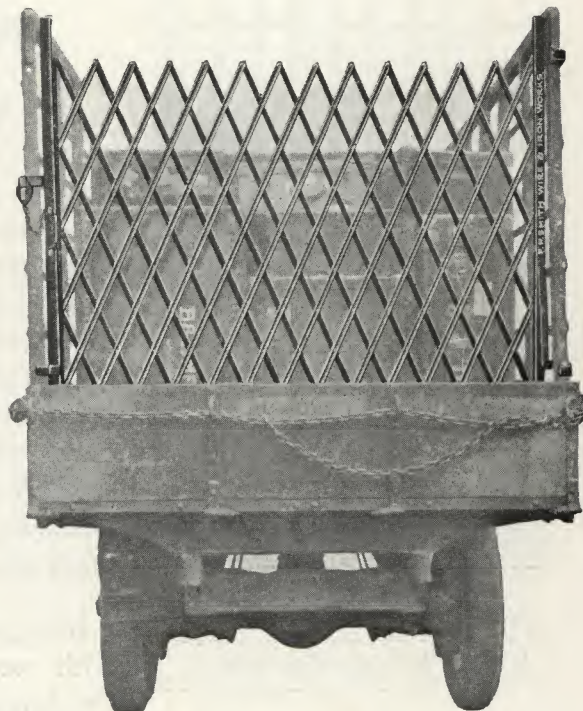
## Folding Gates



No. 2 Folding Gate

Our Folding Gates are substantially constructed of open hearth steel and are exceptionally adaptable for elevator cabs, rear of motor trucks, stairways, corridors, driveways, display windows, entrances to store, theatre, factory and other buildings, or for any kind of an opening or passage requiring a gate to withstand hard usage.

These gates have proven an invaluable night protection. They will close up in about  $\frac{1}{8}$  of their width and are arranged to swing back against the wall, entirely out of the way when not in use.



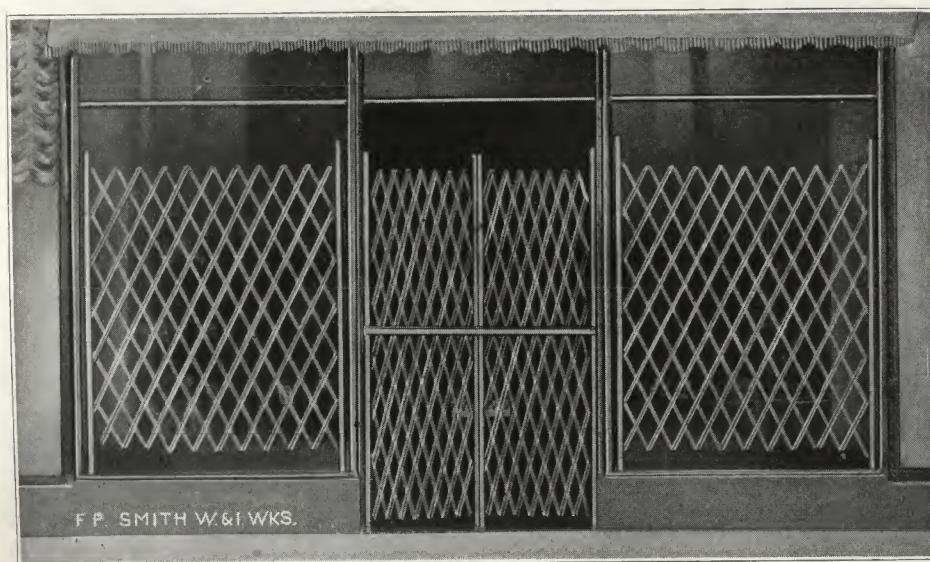
No. 1 Folding Gate

### PRICE LIST

No. 1 Folding Gate, painted.....	per square foot, \$3.00
No. 2 Folding Gate, painted.....	per square foot, 6.00

Gates containing less than 15 square feet each, at special prices. A double gate should be figured as 2 single gates.

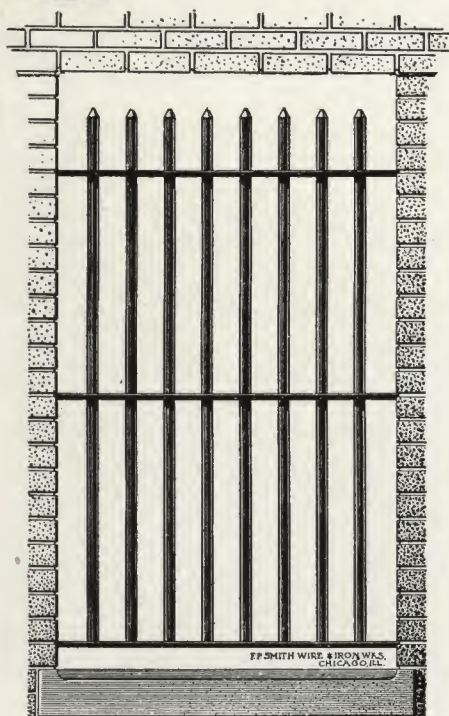
These gates can be made removable at a slight additional charge. Can also be provided with track and floor guides, or with stop for automatic control, at extra charge. Price on No. 2 gate is for 2 rows of lattice. Extra charge for 3 rows of lattice.



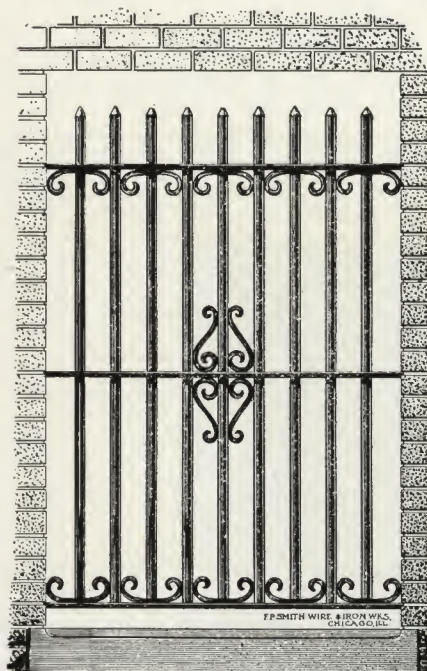
No. 1 Folding Gate

We can also furnish these Folding Gates of solid bronze or brass. Prices on application.





**No. 1 Iron Window Guard**  
 With  $\frac{3}{8}$  inch round uprights,  
 per square foot .....\$1.20  
 With  $\frac{3}{4}$  inch round uprights,  
 per square foot ..... 1.50



**No. 3 Iron Window Guard**  
 With  $\frac{3}{8}$  inch round uprights,  
 per square foot .....\$3.00  
 Square uprights ..... 3.30  
 With  $\frac{3}{4}$  inch round uprights,  
 per square foot .....\$3.60  
 Square uprights ..... 3.90

## Iron and Steel Window Guards

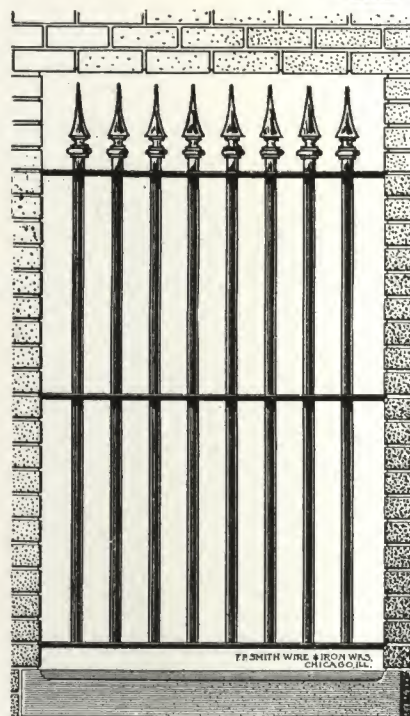
In ordering, give exact openings of windows, and state how you want the guards made to fasten. Iron guards made to go in stone, brick or concrete, or with ends turned to screw to wood frame. Note—Guards less than 4 feet high have 2 cross bars.

Iron guards made to swing with wrought iron hinges and hasp for padlock, extra each .....\$12.00

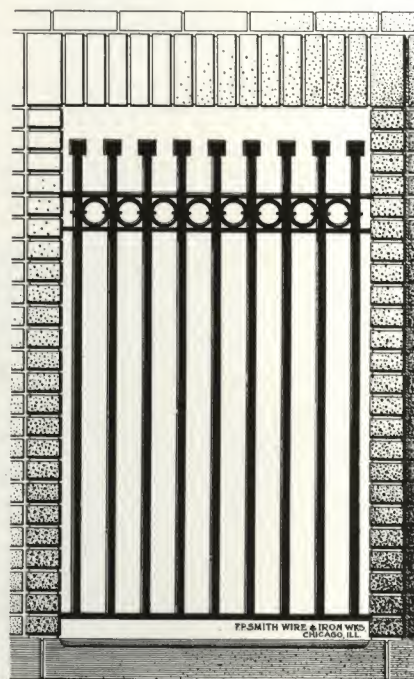
Iron guards made to swing with wrought iron hinges with good mortise lock, extra each .....\$30.00

All our Picket Tops are of best malleable or forged iron. For guards smaller than 10 square feet, higher price will be charged.

We are equipped to manufacture both plain and ornamental designs of Iron Window Guards. Special designs for individual needs will be furnished on application, or the ideas of architects or engineers will be executed.



**No. 2 Iron Window Guard**  
 With  $\frac{3}{8}$  inch round uprights,  
 per square foot .....\$1.80  
 With  $\frac{3}{4}$  inch round uprights,  
 per square foot ..... 2.25



**No. 4 Iron Window Guard**  
 With  $\frac{3}{8}$  inch round uprights,  
 per square foot .....\$2.40  
 Square uprights ..... 2.70  
 With  $\frac{3}{4}$  inch round uprights,  
 per square foot .....\$3.00  
 Square uprights ..... 3.30





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Iron Doors**

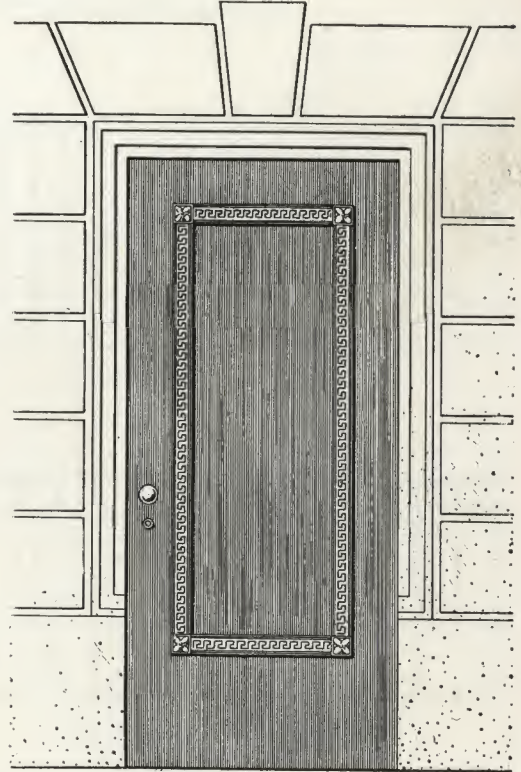


**No. 60 Iron Door**

We are equipped to furnish everything in Iron and Bronze Doors from the plainest to the most artistic in design, for either the exterior or interior of Bank, Store, Office, Library, Residence and Theatre buildings.

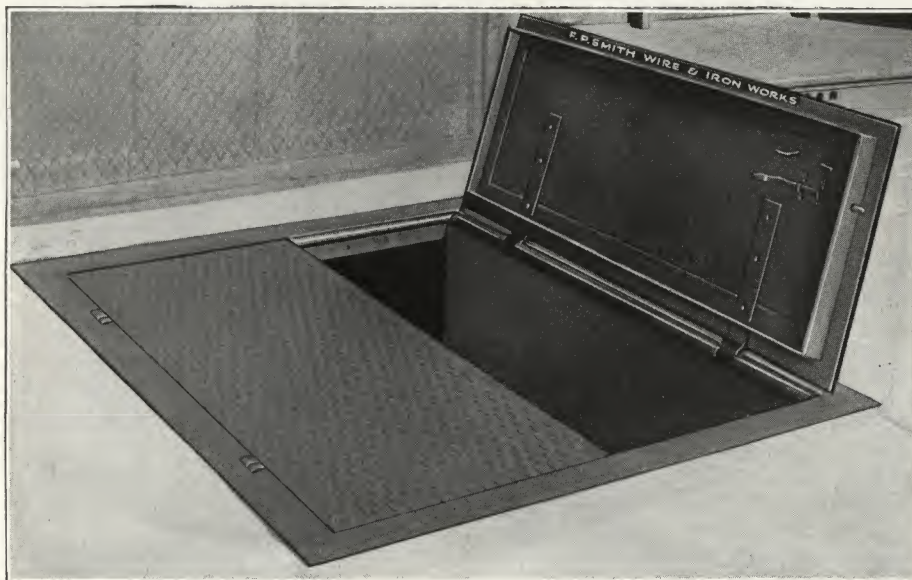
We have a variety of designs of our own which we will submit on request or specific designs of architects will be executed.

We can furnish Vault Doors and Gates for Mausoleums of either iron or bronze, in any finish desired; also Catacomb Handles, Window Guards, Window Sashes, Hinges for Stone and Marble Doors, Bronze Anchors, Memorial Tablets, etc.



**No. 12 Vault Door**

## **Side Walk Door**



**No. 30 Steel Sidewalk Door**

Usually made of 3/16 or 1/4 inch non-slip checkered steel plate.

Can be made either water-tight or non-water-tight and with flush type hinges, frame and lifts, to comply with the laws of state or city.

We can make any desired size, either single or double.

When desired on large doors we can counter-weight them so they can be easily handled and prevent slamming or dropping.

**PRICES QUOTED ON APPLICATION.**

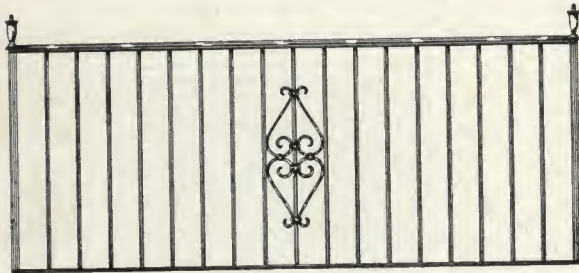




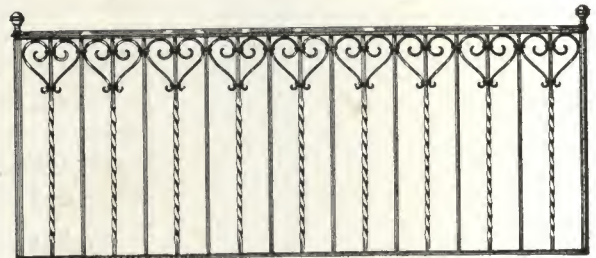
## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



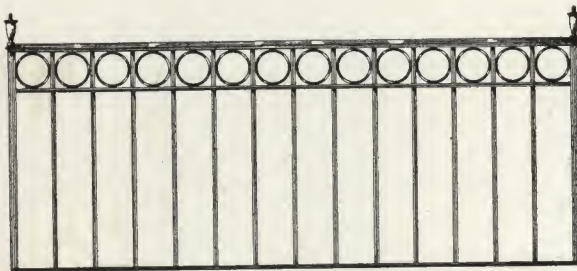
### Ornamental Wrought Iron Railings



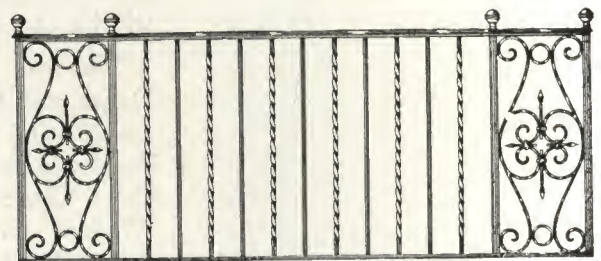
No. R-10 Wrought Iron Railing



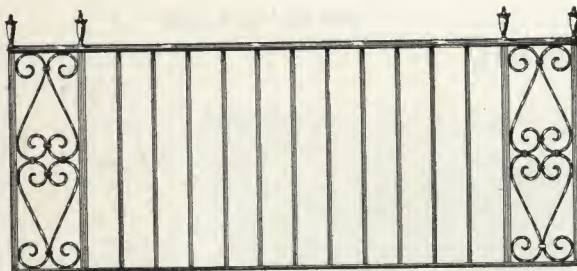
No. R-18 Wrought Iron Railing



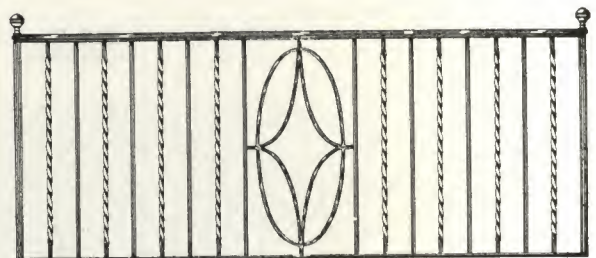
No. R-17 Wrought Iron Railing



No. R-16 Wrought Iron Railing



No. R-14 Wrought Iron Railing



No. R-12 Wrought Iron Railing

The above designs are made of  $\frac{1}{2}$ -inch square uprights, approximately  $3\frac{1}{2}$  inches on centers, with 1-inch x  $\frac{1}{2}$ -inch channel upper and lower rails and 1-inch square posts. These railings are suitable for balconies, porches, well holes, etc. Ornamental tops of either design, as shown on opposite page, will be furnished on posts at the same price.

#### PRICE LIST

For Railings 30 inches high.

Plain Uprights, over 4 lineal feet.....	per foot, \$	5.25
Alternate Twist and Plain, over 4 lineal feet .....	" "	6.75
Extra for Capping Rail "A" (see opposite page).....	" "	1.50
Extra for Capping Rail "B" (see opposite page).....	" "	.75
End Posts .....	each	3.75
Corner or Intermediate Posts .....	"	4.50
Ornament in Design R-10.....	each, over lineal foot price	9.00
Ornament in Design R-12.....	each, over lineal foot price	15.00
Ornament in Design R-17.....	per foot, over lineal foot price	6.75
Ornament in Design R-18.....	per foot, over lineal foot price	6.75
Ornament in Design R-14 including 2 posts.....	over lineal foot price	21.00
Ornament in Design R-16 including 2 posts.....	over lineal foot price	36.00

Estimates on large quantities and special designs on application. Send full particulars when writing for estimates. All railings made in suitable lengths for handling and shipping.

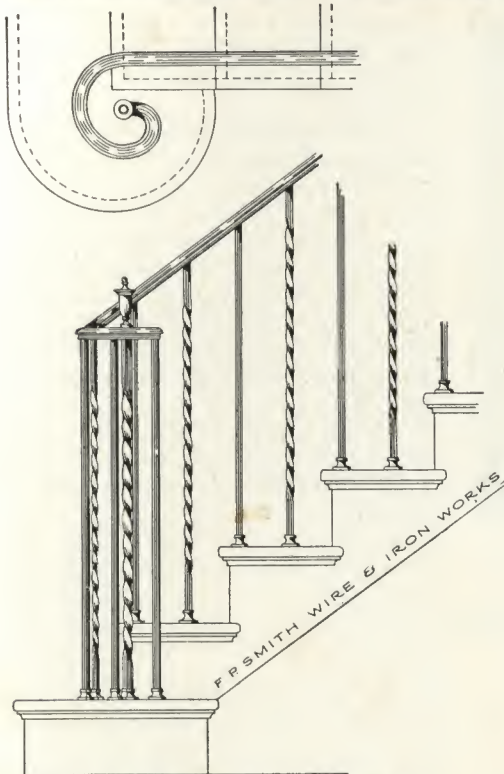




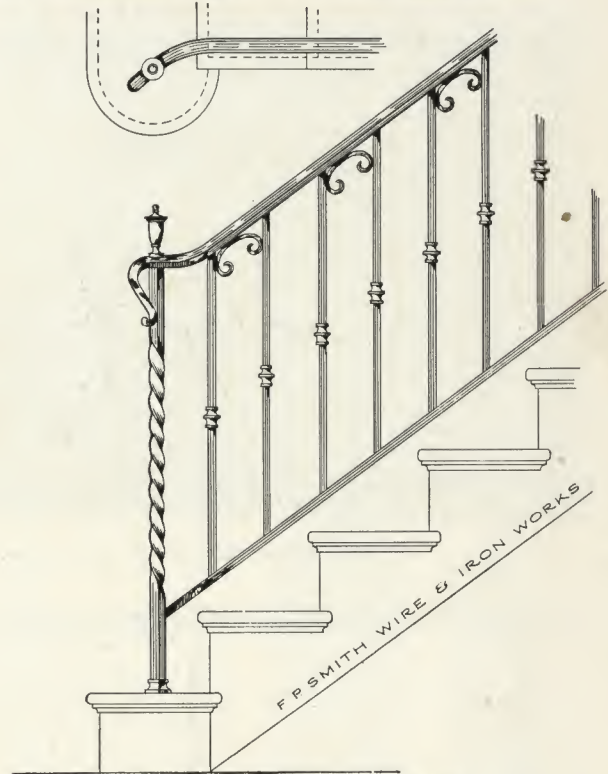
**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## Ornamental Wrought Iron Railings (Continued)



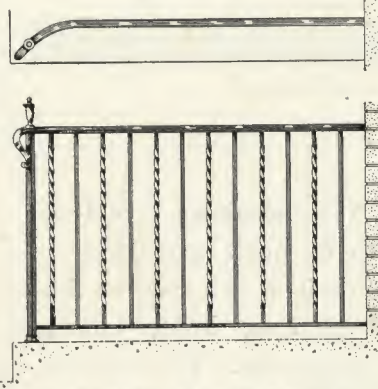
No. S-9 Wrought Iron Railing



No. S-12 Wrought Iron Railing



C. I. Post Top "Z"  
1/3 Full Size  
Price ....each, \$1.80



No. S-13 Wrought Iron Railing



C. I. Post Top "Y"  
1/3 Full Size  
Price ....each, \$1.50

The above designs are made of 1/2-inch square uprights, with 1-inch x 1/2-inch channel rails. These railings are suitable for interior and exterior stairs, porches and well holes, for residences, public buildings, etc. Ornamental tops of either design will be furnished on posts at the same price.

### PRICE LIST

For Railings 32 inches high

No. S-9 over 4 lineal feet .....	per foot, \$	8.25
No. S-12 over 4 lineal feet .....	" "	9.00
No. S-13 over 4 lineal feet .....	" "	6.75
Extra for Capping Rail "A" .....	" "	1.50
Extra for Capping Rail "B" .....	" "	.75
No. S-9 Posts, with Capping Rail "A" .....	each	45.00
No. S-9 Posts, with Capping Rail "B" .....	" "	37.50
No. S-12 Posts, with Capping Rail "A" .....	" "	15.00
No. S-12 Posts, with Capping Rail "B" .....	" "	12.00
No. S-13 Posts, with Capping Rail "A" .....	" "	13.50
No. S-13 Posts, with Capping Rail "B" .....	" "	10.50



Capping Rail "A"  
1/2 Full Size



Capping Rail "B"  
1/2 Full Size

Estimates on large quantities and special designs on application. Send full particulars when writing for estimates. All Railings made in suitable lengths for handling and shipping.





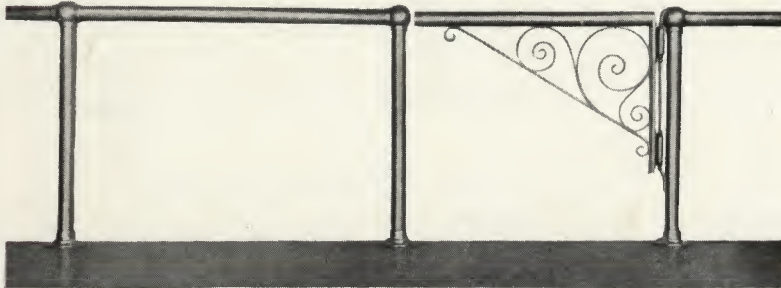
**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



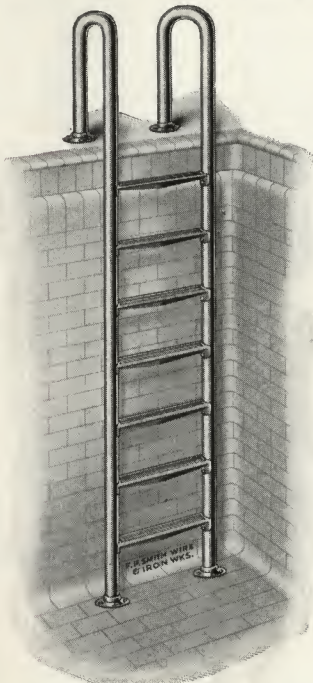
## Ornamental Bronze and Brass



No. 302 Cast Statuary Bronze Tablet



No. 25 Heavy Solid Brass Railing



No. 179 Swimming Pool Ladder

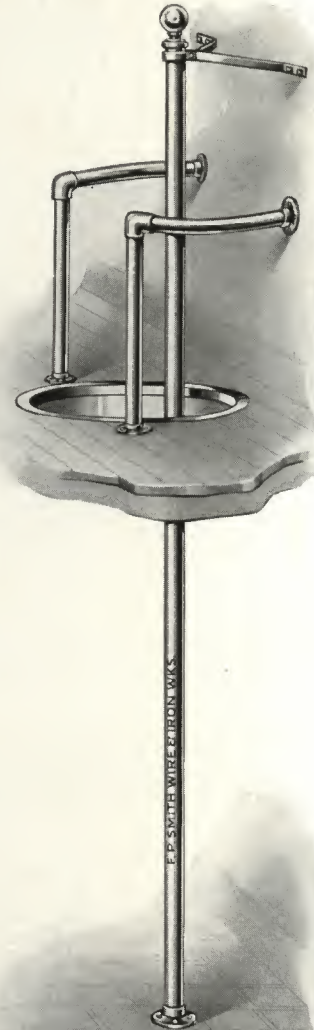
No. 179 Swimming Pool Ladder can be made any width or height desired and can be furnished in iron, brass, bronze, silver-bronze, etc. Prices will be quoted on receipt of particulars. Chromium plated if desired.

No. 174 Firemen's Brass Sliding Pole is generally furnished with guard rails and wall braces, as shown. Pole is usually made 3 inches in diameter; guard rails and posts for same, 2 inches. Will submit prices on receipt of particulars

Our Bronze Tablets are made of solid bronze and cast in one piece. The letters and border of Tablets are usually raised and any desired finish will be furnished.

Our Designers, Modelers, Artisans and equipment enable us to design and execute everything in Bronze Memorial and Commercial Tablets, Bulletin or Directory Boards, Bronze and Brass Signs, Name Plates, Kick Plates, Thresholds, Door Guards, Railings of various types, and other work within the range of Ornamental Bronze and Brass for Office, Store, Residence, Library, Bank and Theatre buildings.

Designs of our own will be submitted on application, or specific designs of architects carried out to the minutest detail.



No. 174 Firemen's Brass Sliding Pole





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



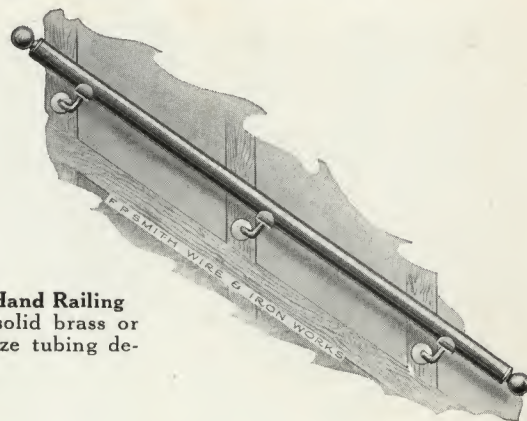
## Ornamental Bronze and Brass (Continued)



**No. 16 Heavy Division Rail**  
for center of stairs

Made of either solid brass or bronze of any size tubing desired.

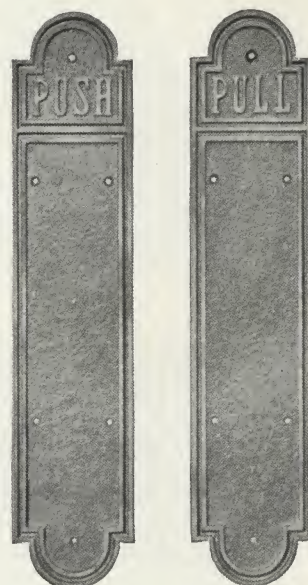
Furnished with pieces of loafers' guard across as shown, to prevent mischievous boys from sliding down, or without the loafers' guard, as preferred.



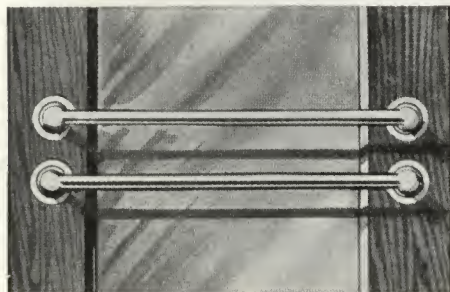
**No. 26 Heavy Hand Railing**  
Made of either solid brass or bronze of any size tubing desired.

**Push and Pull Plates**  
We are prepared to furnish Push and Pull Plates of either cast or wrought solid brass or bronze, in any finish desired.

They can be supplied in a variety of designs, lettered as shown in the illustrations opposite, or without any lettering.

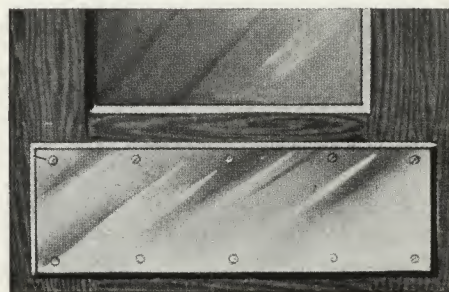


**No. 50**  
Heavy Cast Brass or Bronze  
—stippled background.



**No. 126 Heavy Door Rails**

Furnished of any size tubing or any length desired, of either solid brass or bronze, in any finish wanted.



**No. 30 Kick Plate**

With beveled edges. Thickness about 1/16 inch. Made any length or width of either solid wrought brass or bronze, in any finish desired.

**PRICES WILL BE QUOTED ON APPLICATION.**





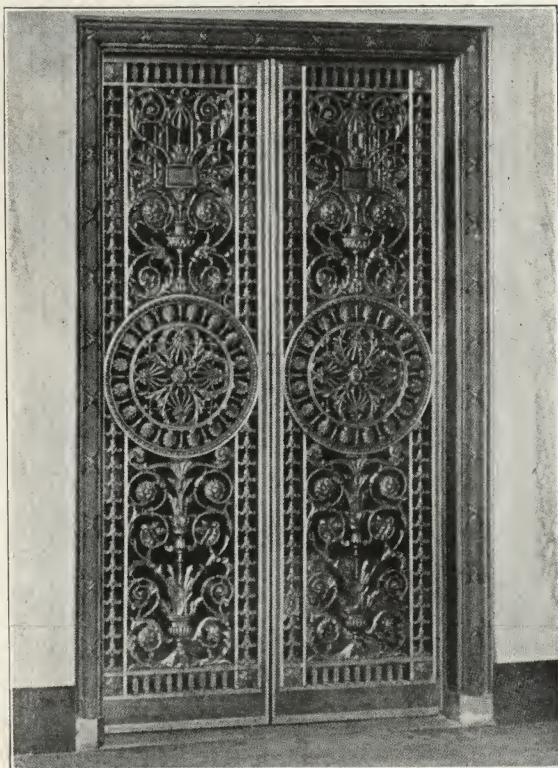
**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Ornamental Iron and Bronze**



MAIN STAIR (TO MEZZANINE)—MARBRO THEATRE BUILDING, CHICAGO  
Levy and Klein, Architects. All Ornamental Iron furnished by us.



BRONZE ELEVATOR ENCLOSURE  
Kahl Office and Theatre Building, Davenport, Iowa.  
C. W. & Geo. L. Rapp, Architects.



IRON ENTRANCE GRILLES  
E. J. Dirks' Residence, Wilmette, Ill.  
Clarence Hatzfeld, Architect.





## F.P. SMITH WIRE AND IRON WORKS, CHICAGO



IRON PORCH RAILING  
E. J. Dirks' Residence, Wilmette, Ill.  
Clarence Hatzfeld, Architect.



IRON CANOPY  
Rainbo Gardens, Chicago.

### Ornamental Iron and Bronze (Continued)

In addition to our Wire Working Shops and Weaving Department, for manufacturing the various wire products shown on the preceding pages of this catalog, our Plant comprises extensive Departments which are provided with all the most modern appliances for execution of orders or contracts for ORNAMENTAL IRON and BRONZE, to the best possible advantage.

We have our OWN FOUNDRY where we pour only FINE ORNAMENTAL IRON, BRONZE and BRASS CASTINGS, and a COMPLETE PATTERN and MODELING SHOP; also drafting room, fitting, finishing, plating, Bower-Barff finishing and sand blasting departments. We are completely equipped for electric welding of all kinds, such as spot, butt and arc welding, also oxygen-acetylene welding.

These facilities enable us to guarantee faithful and satisfactory execution of any order, which is entrusted to our care; a guarantee which is endorsed by a successful business record extending over a period of nearly 50 years.

We extend a cordial invitation to architects, contractors and owners to visit our plant and inspect our facilities for manufacturing the highest grade of work.

We are prepared to submit on application, a variety of designs of Ornamental Iron and Bronze Work, for individual requirements, or the ideas of architects and engineers will be carried out to the minutest detail.





**F.P. SMITH WIRE AND IRON WORKS, CHICAGO**



## **Iron Grille Screen Doors**



**Illustration No. 17**

A photographic view from the interior of a home in Florida, facing the ocean, showing one of our many installations of ARTISTIC IRON GRILLE SCREEN DOORS. Doors of this character protect very effectively against intrusion, add a charming effect to the room and permit a pleasant view of the garden outside. They are generally lined with fine mesh bronze or monel metal fly screen.

We are prepared to execute everything in iron and bronze grilles. Designs of our own will be submitted on application, or specific designs of architects will be carried out faithfully.







